SERVICE MANUAL WE55 – WE55MP

471 1553-55/01 95.32

Electrolux Wascator

NOTICE TO SERVICE PERSONNEL

INSTALLATION

Improper installation of Wascomat laundry and wet cleaning equipment can result in personal injury and severe damage to the machine.

REFER INSTALLATION TO QUALIFIED PERSONNEL!

RISK OF ELECTRIC SHOCK

The equipment utilizes high Voltages. Disconnect electric power before servicing. The use of proper service tools and techniques, and the use of proper repair procedures, is essential to the safety of service personnel and equipment users. **REFER SERVICING TO QUALIFIED SERVICE PERSONNEL!**

RISK OF PERSONAL INJURY

This equipment contains moving parts, and some components that may have sharp edges. Improper or careless service procedures may result in serious injury to service personnel. **REFER SERVICING TO QUALIFIED SERVICE PERSONNEL!**

ABOUT THIS MANUAL

This manual is intended to provide service guidance to qualified service personnel. Wascomat and its authorized dealers make no determination regarding the qualification of individuals requesting this service manual. The service provider assumes all risks inherent to the servicing of this equipment and any risks that arise as result of the lack of knowledge or ability of any person servicing this equipment.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL!

NOTE:

Improper installation or servicing of Wascomat equipment will void the manufacturer's warranty!

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Service Manual

Fig The washing machine described in this manual has a drum volume of 53 litres, high-

 speed extraction and fixed wash programs. It is made for use in appartment house laundries, hotels, factories, hospitals, small institutions and by other users who require a machine with a high level of reliability, good performance and simple maintenance.

This is a machine with flexible mounting, in other words the wash drum is not rigidly mounted on the base plate. This means that a minimum of vibration is transferred to the frame, which in turn simplifies installation as no cast foundation is required.

Vibration due to unbalance is further reduced because the drum begins with extraction cycle at distribution speed, to distribute the load before high-speed extraction.

On high-speed extraction the machine has a G factor of approx. 360, which achieves a low water retention.

The machine is available with either of two types of timers:

- Electromechanical timer with fixed wash programs. The standard wash programs can be modified by selection of options.
- Electronic timer with fixed wash programs. The standard wash programs can be modified by selection of options. The timer also has a built-in fault-tracing program which assists in ensuring efficient servicing.

Machines are supplied equipped to meet customer requirements, with or without electric heating, and for connection to cold water supply only or both hot and cold intake. Machines can be adapted on-site with the aid of a special kit for connection to cold, hot or hard water supplies.

These machines can also be equipped with a coin operation mechanism, fitted on the right-hand side.



Safety

- This machine can only be used with water. Never use dry cleaning agents.
- Do not allow children to operate the machine.
- Installation and servicing must be carried out by qualified, authorised personnel.
- Do not under any circumstances attempt to bypass the door locking device.
- Any leakage in the system, e.g. a worn door seal, must be repaired immediately.
- Before any repair or service is carried out, the technician involved must study the relevant user and service manuals.
- Do not hose down or spray the machine with water.

Service Manual

Capacity, dry weight filling factor 1:13 filling factor 1:10		4.0 kg 5.3 kg
Drum volume diameter depth no. of lifters		53 litres 452 mm 332 mm 3
Drum speed	wash wash, mild and wool prog extraction	54 rev/min rams 35 rev/min 550/800/1300 rev/min
G factor	wash extraction	0.7 76/162/425
Dimensions	width depth height	595 mm 680 mm 850/875 mm
Clearance for servicing,		
	sides rear	50 mm 500 mm
Weight	net	102kg
Max. floor load during ex	traction	1.02±0.3 kN
Frequency (dynamic load	(k	2.0 Hz
Water valves	connection rec. water pressure pressure limits	DN 20 BSP 3/4" 200-600 kPa 40-1000 kPa
Drain valve	connect. outer diameter capacity	50 mm 160 l/min

Machine with electromechanical timer

Fig This is a machine with flexible mounting, which means that the outer drum and motor are supported by a "cradle" resting on four dampers which take up unbalance arising in the machine.

The inner drum is driven by a motor via a drive belt. This motor is in the lower part of the machine and is mounted on the cradle. It has a belt-tensioning device. The inner drum is attached to the outer drum at the rear gable where there are two sealed bearings.

The drain valve is a water-controlled membrane valve. Alternatively a drain pump.

The door is a heavy-duty rectangular door, which is locked by a safety mechanism while the machine is operating.

The control panel has a program selector knob for selecting the wash programs, and option buttons for modifying them. It also has a program indicator to show the program sequence, a start button, button to open the door and an indicator light to show when the machine is operating.

The timer and program selector are located inside the control panel. The relays, level control, water valves, thermostat etc. are sited on a component shelf at the rear of the machine, with easy access from above.

The machine sides are enamelled and made from galvanised, cold-rolled sheet steel. The top cover is made from stainless steel.



Machine with electronic timer

Fig This is a machine with flexible mounting, which means that the outer drum and motor are
 (2) supported by a "cradle" resting on four dampers which take up unbalance arising in the machine.

The inner drum is driven by a motor via a drive belt. This motor is in the lower part of the machine and is mounted on the cradle. It has a belt-tensioning device. The inner drum is attached to the outer drum at the rear gable where there are two sealed bearings.

The drain valve is a water-controlled membrane valve. Alternatively a drain pump.

The door is a heavy-duty rectangular door, which is locked by a safety mechanism while the machine is operating.

The control panel has seven buttons for selecting the wash programs, two or four option buttons, and a combination start and door-opening button. Each button has an LED to indicate the program selected. The panel also has ten LEDs which function as a program indicator to show the program sequence, and a display to show the temperature inside the machine and for fault/ error indication.

The timer is located inside the control panel. The relays, water valves etc. are sited on a component shelf at the rear of the machine, with easy access from above.

The machine sides are enamelled and made from galvanised, cold-rolled sheet steel. The top cover is made from stainless steel.



Description of programs, electromechanical timer

These machines may have either 8 or 5 built-in programs, depending on which programmer is fitted. Programs are selected by means of a selector knob on the control panel.

The machine can be equipped for the following program variants:

P01CH*	P02CH*	P11C*	P21CH*	P31C*
Normal 95°	Hot	Normal 95°	Normal 95°	Normal 95°
Normal 60°	Warm	Normal 60°	Normal 60°	Normal 60°
Normal 40°	Cold	Normal 40°	Normal 40°	Normal 40°
Mild 30°	Mild	Mild 30°	Mild 30°	Mild 30°
Wool	Perm. press	Wool	Wool	Wool
Perm. press 40°		Perm. press 40°	Perm. press 40°	Perm. press 40°
Perm. press 60°		Perm. press 60°	Perm. press 60°	Perm. press 60°
Perm. press 95°		Perm. press 95°	Perm. press 95°	Perm. press 95°
Options:		Options:	Options:	Options:
 Intensive 		Heavily soiled	 Heavily soiled 	 Heavily soiled
Rinse stop		No extraction	Rinse stop	 Rinse stop

P41C*	P51CH*	P61CH*
Normal 95°	Normal 95°	Normal 95°
Normal 60°	Normal 60°	Normal 60°
Normal 40°	Normal 40°	Normal 40°
Mild 30°	Mild 30°	Mild 30°
Wool	Wool	Wool
Perm. press 40°	Perm. press 40°	Perm. press 40°
Perm. press 60°	Perm. press 60°	Perm. press 60°
Perm. press 95 $^\circ$	Perm. press 95°	Perm. press 95°
Options: • Intensive • Rinse stop • Extra rinse	Options: • Intensive • Rinse stop	Options: • Heavily soiled • No extraction

* The program number shows which market the program is intended for, as follows:

P01 = Wascator, export	P31 = Osby, Sweden
P02 = All sales channels	P41 = Wascator, Switzerland
P11 = Wascator, Sweden	P51 = Zanussi
P21 = Nyborg	P61 = Wascator, Finland

The letters after the program number show the water intakes required for the program. C = cold water and CH = cold and hot water.

The times, temperatures, water levels etc. of the various programs are shown in the special tables for each program. The programmer is at a standstill during cool-down, water filling and heating. The times required for these parts of the cycle are not included in the times stated in the tables.

The temperature during the main wash (and prewash if selected) is automatically controlled by the thermostat.

During cool-down after the main wash (for permanent press 95° and 60°) the water intake is pulsed to prevent creasing. The temperature normally falls to 55° C.

Program table P 01 CH

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- = NO DRUM ACTION
 G = GENTLE ACTION
 N = NORMAL ACTION
 D = DISTRIBUTION SPEED
 E = EXTRACTION
 R = REDUCED GENTLE ACTION
 C = COLD WATER (APPROX. 15° C)

Program table P 01 CH (with options)

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PROGRAM TIME

TUMBLING

- W = WARM WATER (APPROX. 35° C) H = HOT WATER (APPROX 65° C) Hd = HARD WATER LL = LOW WATER LEVEL ML = MEDIUM WATER LEVEL HL = HIGH WATER LEVEL
- REDUCED GENTLE ACTION COLD WATER (APPROX. 15° C) - = NO DRUM ACTION
 G = GENTLE ACTION
 G = NORMAL ACTION
 N = NORMAL ACTION
 D = DISTRIBUTION SPEED
 E = EXTRACTION
 R = REDUCED GENTLE ACTIC
 C = COLD WATER (APPROX.

Program table P 11 C

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- H = HOT WATER (APPROX 65° C) Hd = HARD WATER LL = LOW WATER LEVEL ML = MEDIUM WATER LEVEL HL = HIGH WATER LEVEL

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G = GENTLE ACTION N = NORMAL ACTION D = DISTRIBUTION SPEED E = EXTRACTION R = REDUCED GENTLE ACTION C = COLD WATER (APPROX. 15° C)

Program table P 21 CH

NORMAL 95° NORMAL 60°	- 7	INTAKE WATER TEMP °C COMPARTMENT TIME, MIN TIME, MIN TIME, MIN TIME, MIN TIME, WATER TIME, MIN		- Z N 3 W -		_	C'D N		C - HL 1 N 2 C - H	N 0,5	E 1	2 C	N 0,5	E 1	2 C -	-	<u>``</u>	-	N 0,5	34,5 34,5	 - = NO DRUM ACTION G = GENTLE ACTION G = NORMAL ACTION N = NORMAL ACTION D = DISTRIBUTION SPEED E = EXTRACTION R = REDUCED GENTLE ACTION C = COLD WATER (APPROX. 15° C)
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MOOL	- - -	DRUM ACTER TEMP °C COMPARTMENT DRUM ACTION			C 40 UL Z				C - HL 1 F			C - HL 1	-	-	C - HL 3					22,5	
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Program table P 21 CH (with options)

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G = GENTLE ACTION N = NORMAL ACTION D = DISTRIBUTION SPEED E = EXTRACTION R = REDUCED GENTLE ACTION C = COLD WATER (APPROX. 15° C)

Program table P 31 C

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Program table P 31 C (with options)

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- H = HOT WATER (APPROX 65° C) Hd = HARD WATER LL = LOW WATER LEVEL ML = MEDIUM WATER LEVEL HL = HIGH WATER LEVEL
- G = GENTLE ACTION N = NORMAL ACTION D = DISTRIBUTION SPEED E = EXTRACTION R = REDUCED GENTLE ACTION C = COLD WATER (APPROX. 15° C)

Program table P 41 C

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95°		СОМРАRTMENT	T		~	10	F						-			-			3						COL REL NOL
AL		LEVEL	T		=	: =							Ŧ			土			н				_	9'	
NORMAL 95°		TEMP ∘C											•			•								34,	, QNDHKO
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PROGRAM		PROGRAM STEP	PREWASH	N	SOAKING	MAIN WASH	COOL-DOWN	N	EXTRACTION	SE 1	N	EXTRACTION	SE 2	N	EXTRACTION	SE 3	Z	EXTRACTION	SE 4	Z	LOW EXTRACTION	HIGH EXTRACTION	TUMBLING	PROGRAM TIME	
		PR(PRE	DRAIN	SOA	MAIN	00	DRAIN	EXTF	RINSE 1	DRAIN	EXTF	RINSE 2	DRAIN	EXTF	RINSE 3	DRAIN	EXTF	RINSE 4	DRAIN	LOW	HIGH	TUM	PRO	
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Program table P 41 C (cont.)

			DRUM ACTION	z	z			z	z	z	ш				z	Z	ш	z	z	ш	z	z	ш		z		
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40			COMPARTMENT	<u> </u>	-	+		2		-	_				_	-	-	-	-	_	- 	-	_	-	-		
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			DRUM ACTION			+		ц К		- 0					2	- 0		R	-		Я	-	ш		-	_	
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MILD 30°		9	LEMP ∘C			+		30 F							<u> </u>		_	<u> </u>								22,5	WARM WATER (APPROX. 35° C) HOT WATER (APPROX 65° C) HARD WATER LOW WATER LEVEL MEDIUM WATER LEVEL HIGH WATER LEVEL
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			DRUM ACTION	z	z	+		z		Z	ш	z	z	ш	z	N (ш	z	z	ш	z	-	ш	ш	N		WARM WATER () HOT WATER () HARD WATER () LOW WATER L MEDIUM WATER I HIGH WATER I
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			DRUM ACTION	z		+		z		z	ш		z	ш	z	N	ш	z	z	ш		z	ш	ш	z		ට
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°50			COMPARTMENT	-				2							-						3						COL RAIS
NORMAL 95°			ГЕ∧ЕГ	E								土			Ŧ			Ŧ			ᅱ					<u> </u>	
RR		െ	TEMP ∘C	40				90																		49,1	, QNUMKO
g			AATAW AAATNI	ပ				ပ				ပ			ပ			ပ			ပ						
			TIME, MIN	4	0,5			24		0,5	0,1	2	0,5		2	0,5	-	2	0,5	-	2	0,5	2,5	4	0,5		
	MIRYDORL		PROGRAM STEP	VASH	7		ING	MAIN WASH	COOL-DOWN	N	EXTRACTION	1	7	EXTRACTION	Ξ 2	N	EXTRACTION	E 3	7	EXTRACTION	E 4	N	LOW EXTRACTION	HIGH EXTRACTION	TUMBLING	PROGRAM TIME	
	/		PRC	PREWASH	DRAIN		SOAKING	MAIN	C001	DRAIN	EXTR	RINSE 1	DRAIN	EXTR	RINSE 2	DRAIN	EXTR	RINSE 3	DRAIN	EXTR	RINSE 4	DRAIN	LOW	HIGH	TUME	PRO(13
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- W = WARM WATER (APPROX. 35° C) H = HOT WATER (APPROX 65° C) Hd = HARD WATER LL = LOW WATER LEVEL ML = MEDIUM WATER LEVEL HL = HIGH WATER LEVEL

Program table P 51 CH

3 95°		COMPARTMENT DRUM ACTION					2 N		1 2	z					1 N	z	ш	1 N	z	ш	3 N	z	ш		z	-	
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∘09		DRUM ACTION	T				z			z					z	z	ш	z	N	ш	Ν	z	ш		z		
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Ë.	9	TEMP ∘C						40																		30	
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Щ		TIME, MIN					ŝ	15	'	0,5					7	0,5	-	2	0,5	-	2	0,5	2		0,5		
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		СОМРАRTMENT						2							-			-			3						
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Ň		TEMP ∘C						40													-					22,	
		NTAKE WATER						ပ							ပ			ပ			С						
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0		COMPARTMENT						7										-			3						ତ
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40°		COMPARTMENT					2	2							-			-			3						
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ž		INTAKE WATER					≥	≥							ပ			ပ			C	.0					H H H H H
\vdash		TIME, MIN	┡				ŝ	15	Ľ	0,5					2	0,5	-	2	0,5	-	2	0,5	2,5	4	0,5		
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		TIME, MIN	\vdash	-			3	-	.	0,5	-				2	0,5	-	2	0,5	-	2	0,5	2,5	4	0,5		
PROGRAM		PROGRAM STEP	SH HS				<u>I</u> G		COOL-DOWN		EXTRACTION	_		EXTRACTION	2		EXTRACTION	3		EXTRACTION	4		LOW EXTRACTION	HIGH EXTRACTION		PROGRAM TIME	
	/	ROG	PREWASH	DRAIN			SOAKING	MAIN WASH	<u>1-10</u>	DRAIN	TRA	RINSE 1	DRAIN	TRA	RINSE 2	DRAIN	TRA	RINSE 3	DRAIN	(TRA	RINSE 4	DRAIN	WE)	GHE	TUMBLING	ROGR	
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Program table P 51 CH (with options)

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95°		DRUM ACTION	z	z	_		Z	z	z		-			z	z	ш	Z	Z	ш	2 3	Z	ш	·	Z		
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		DRUM ACTION	z	z			z		z		z	z	ш	z	z	Е	Z	Z	ш	z	z	ш	ш	z		
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		TIME, MIN	4	0,5		•	24		0,5		\sim	0,5	-	7	0,5	-	2	0,5		\sim	0,5	2,5	4	0,5		M
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1AL	6	LEVEL	Ц				LL				Η			ΗL			HL			Н					49	
NR N		TEMP ∘C	30				90							•			•								P	
ž		INTAKE WATER	≥				т				ပ			ပ			ပ			ပ						
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PROGRAM		PROGRAM STEP	VASH	7		ING	MAIN WASH	COOL-DOWN	7	EXTRACTION	1	~	EXTRACTION	5 2	7	EXTRACTION	13	7	EXTRACTION	<u>=</u> 4	7	LOW EXTRACTION	HIGH EXTRACTION	TUMBLING	PROGRAM TIME	
		PRC	PREWASH	DRAIN		SOAKING	MAIN	2001	DRAIN	EXTR	RINSE '	DRAIN	EXTR	RINSE 2	DRAIN	EXTR	RINSE 3	DRAIN	EXTR	RINSE 4	DRAIN	MO	HIGH	TUME	PROC	
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- W = WARKIN WATER (APPROX. 35° C) H = HOT WATER (APPROX 65° C) Hd = HARD WATER LL = LOW WATER LEVEL ML = MEDIUM WATER LEVEL HL = HIGH WATER LEVEL



Program table P 61 CH

95°		СОМРАКТМЕИТ DRUM ACTION			T	Z	-		z					z	z	ш	z	z	ш	3 N	z	ш	•	z		
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<u>ч</u>		TEMP °C	-		+	'	6	99						ŀ			ŀ									
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- W = WARM WATER (APPROX. 35° C) H = HOT WATER (APPROX 65° C) Hd = HARD WATER LL = LOW WATER LEVEL ML = MEDIUM WATER LEVEL HL = HIGH WATER LEVEL
- = NU DRUM ACTION
 G = GENTLE ACTION
 N = NORMAL ACTION
 D = DISTRIBUTION SPEED
 E = EXTRACTION
 R = REDUCED GENTLE ACTION
 C = COLD WATER (APPROX. 15° C)

Description of programs, electronic timer

These machines have 7 built-in programs. These basic programmes can also be modified with the aid of the option buttons. Programs are selected by means of push-buttons on the control panel.

The machine can be equipped for the following program variants:

PE01aCH*	PE01bCH*	PE01dCHd	PE11aC*	PE21aCHd*
Normal 95°	Normal 95°	Normal 95°	Normal 95°	Normal 95°
Normal 60°	Normal 60°	Normal 60°	Normal 60°	Normal 60°
Normal 40°	Normal 40°	Normal 40°	Normal 40°	Normal 40°
Mild 30°	Mild 30°	Mild 30°	Mild 30°	Mild 30°
Wool	Wool	Wool	Wool	Wool
Perm. press 40°	Perm. press 40°	Perm. press 40°	Perm. press 40°	Perm. press 40°
Perm. press 60°	Perm. press 60°	Perm. press 60°	Perm. press 60°	Perm. press 60°
Options: • Express • Intensive • Rinse stop • Extra rinse	Options: • Heavily soiled • No extract.	Options: • Heavily soiled • Gentle extract.	-	Options: • Heavily soiled • Gentle extract.

PE31aC*	PE41aC*	PE51aCH*	P61aCH*	
Normal 95°	Normal 95°	Normal 95°	Normal 95°	
Normal 60°	Normal 60°	Normal 60°	Normal 60°	
Normal 40°	Normal 40°	Normal 40°	Normal 40°	
Mild 30°	Mild 30°	Mild 30°	Mild 30°	
Wool	Wool	Wool	Wool	
Perm. press 40°	Perm. press 40°	Perm. press 40°	Perm. press 40°	
Perm. press 60°	Perm. press 60°	Perm. press 60°	Perm. press 60°	
Options: • Heavily soiled • Rinse stop	Options: • Express • Intensive • Rinse stop • Extra rinse	Options: • Express • Intensive • Rinse stop • Extra rinse	Options: • Heavily soiled • No extraction	

* The program number shows which market the program is intended for, as follows:

PE01 = Wascator, export	PE41 = Wascator, Switzerland
PE11 = Wascator, Sweden	PE51 = Zanussi
PE21 = Nyborg	PE61 = Wascator, Finland
PE31 = Osby, Sweden	

The letters after the program number show the water intakes required for the program. C = cold water and CH = cold and hot water, and Hd = hard water.

The times, temperatures, water levels etc. of the various programs are shown in the special tables for each program. The programmer is at a standstill during cool-down, water filling and heating. The times required for these parts of the cycle are not included in the times stated in the tables.

The temperature during the main wash (and prewash if selected) is automatically controlled by the thermostat.

During cool-down after the main wash (for permanent press 95° and 60°) the water intake is pulsed to prevent creasing. The temperature normally falls to 55° C.

Service Manual

4. Programs

Program table PE 01a CH

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HEATING WASHING

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Program table PE 21a CHd

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MILD 30°

NORMAL 40°

NORMAL 60°

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PROGRAM

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Program table PE 31 C

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The following maintenance routines should be adhered to for safe and

efficient functioning and to prevent machine downtime. The precise maintenance intervals should be adjusted according to the amount that the machine is used.

Every day

- Check the door and door lock:
 - Open the door and try to start the machine. The machine should not start.
 - Shut the door, start the machine and try to open the door. It should not be possible to open the door.
 - Check that the door is not leaking.
 - Clean the door seal, removing any traces of detergent or lint.
- Check that the drain valve does not leak while the machine is washing.
- Clean any left-over detergent from the detergent dispenser by using rapid advance through a program and letting the water flush the compartment clean.

Every three months



- Check that the door has not been leaking.
- Check the drain for the machine and remove any lint present.
- Inspect the machine internally (straight after a wash so that any leaks will be apparent). Procedure:
 - Switch off the machine's main power switch.
 - Remove the top cover and the front and back panels.
 - Check that all internal hose connections are sound, without leaks.
 - Check the drive belt, tighten or replace if necessary (see section 30. Motor).
 - Check that no water has leaked onto the floor. The machine interior does not have any drain or ventilation outlets built in, but a defect in the machine's permanent seal could allow water through.
 - If the heating time was abnormally long, check the elements (see section 40. Heating).
 - Check the dampers.
 - If the mains supply is very hard water check to see whether the elements have limescale deposits. If necessary descale them with a suitable descaling product. Follow the manufacturer's instructions concerning quantity of descaler.
 - Never activate the heating elements without water in the machine. Doing so will cause the element fuses to blow.

Fault location

If the power supply to the machine should be cut while it is working, the timer has a memory which stores the program selected for about 8 to 10 minutes.

Within this period the machine will restart automatically once the power supply is restored.

Indication of faults/errors

Fig. Faults/errors in the program or machine are indicated by a numerical error code on (1)the control panel display.



In the case of error code 01, an attempt to restart the machine may be made as soon as the fault has been remedied. For the other error codes, a service technician must be called.

Error code	Cause/Action
01	Water level not reached.Check that the manual stopcocks are open.Restart machine (can be done without switching off power supply.
02	Door lock malfunctionOpen and/or shut door. Restart machine.
03	Malfunction in bimetallic component in door lock.
04	Short-circuit in or on route to temperature sensor.
05	Temperature too high. Fault in or on route to temperature sensor.
06	Drain or pump blocked. Water in machine before attempt to start program.
07	Machine is taking in too much water. Water valve not closing.
08	No heating or heating too slow.
10	Drain fault. Water has not discharged within allocated drain time. Drain or purr blocked.
12	Fault in program memory.
13	Failure in communications between programmer and motor control. Motor control faulty.
14	Water-level system not calibrated. Press START for start of wash program. The program will now run, but with the wrong water level.
15	Door lock fault. The lock has a mechanical fault.
16	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.
30-31	Communications fault between motor control and programmer.
38	Tachometer fault. The motor is inactive when it should be working.
40	Fault in motor control. Motor has been working faster than expected.

Built-in service program

The machine has a built-in service program to facilitate function checking and fault location.



To switch to the service program

- (2) Remove the machine top.
 - Press the service switch. This switch is on the lefthand edge of the circuit board when viewed from above. The display will now show SE, which shows that the service program is activated.
- Fig. Now certain of the buttons switch to being number
- (3) keys (1 to 9). The START/door-open button becomes an **ON/OFF** button.



U/3 56 3 7 U/3 56 4 8	

Checking functions

Fig. The LEDs to the left of the display show certain input signals by lighting during the function check. For example, LED 7 comes on when the door is closed. When the particular function is activated, the corresponding LED should come on.

Indicator Function

- 1 Key switch for price=zero
- 2 Coin slot 1
- 3 Coin slot 2
- 4 Price programming button
- 6 Bimetallic component in door lock in closed position
- 7 Door closed
- 8 Remote start, e.g. for a payment system

Certain functions can be simulated by entering a numerical code via the buttons. The function can then be switched on and off using the **ON/OFF** switch.



The following functions can be simulated using a numerical code:		
Code	Function	
11	Detergent compartment, prewash	
12	Detergent compartment, main wash, cold water	
13	Fabric conditioner compartment	
14	Detergent compartment, main wash, hot water	
(15	Detergent signal for connection of liquid detergent dispenser)	
16	Water valve, hot water	
17	Water valve, cold water	
18	Water valve, hard water	
19	Heat, display shows actual temperature in drum, not code 19	
21	Drain valve/pump	
22	Bimetallic component in door lock	
23	Door lock, opening	
24	Level check. Shows level on display. When START is pressed, water filling takes place.	
25	Motor, wash speed low, clockwise	
26	Motor, wash speed low, anticlockwise	
27	Motor, wash speed high, clockwise	
28	Motor, wash speed high, anticlockwise	
29	Distribution speed	
31	Extraction, low speed	
32	Extraction, medium speed	
33	Extraction, high speed	
34	Display, test of all segments, also LED test	
35	Buzzer	
36	Only LED test	
41-42	Counter for coins	
43-44	Counter (hours) for accumulated operating time	
45	Last error code	
51-54	Shows the article number of the program memory (EPROM)	
61	Weight calibration – empty machine	
62	Weight calibration – loaded machine with 3 kgs	
91	Coin value, coin slot 1	
92	Coin value, coin slot 2	
	The coin values displayed are the ratio of the coin for slot 1 to the coin for slot 2.	
93	Pause function	
94	Rapid advance function	

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Accumulated operating time

The service program can be used to display the accumulated operating time in hours.

- Fig. Enter code 43. The first two digits in a four-digit
- (5) number will now be displayed, e.g. 13.
- Fig. Enter code 44. The last two digits in a four-digit
- $(\mathbf{\hat{6}})$ number will now be displayed, e.g. 47.

This means an accumulated operating time of 1347 hours.







Accumulated coin value

The service program can be used to display the accumulated coin value in coin-operated machines.

- Fig. Enter code 41. The first two digits in a four-digit
- (7) number will now be displayed, e.g. 06.
- Fig. Enter code 42. The last two digits in a four-digit
- (8) number will now be displayed, e.g. 58.

This means an accumulated coin value of 658 currency units or 658 tokens. In other words, it shows that 658 currency units or tokens have been inserted into the coin mechanism up until the time of the check.



Article number of program memory (EPROM)

The machine's EPROM is tagged with an article number. This article number can be read off via the service program. By doing this there is no need to remove the circuit board.

Start the service program.

For this operation use the codes 51 to 55 in the service program.

- Fig. Enter code 51. The letter A (for "article number") plus
 two digits will now be displayed., e.g. A47.
- $\underbrace{ \begin{array}{c} \text{Fig.} \\ (10) \end{array} } \quad \text{Enter code 52. The display will show 195.} \end{array}$
- $\underbrace{ \stackrel{\text{Fig.}}{(11)} }_{\text{(11)}} \quad \text{Enter code 53. The display will show 803.}$
- $\begin{array}{c} \textbf{Fg-} \\ \textbf{(12)} \end{array}$ Enter code 54. The display will show 480.

Put together in order, these digits show the EPROM article number:

A (art. no.) 471 958034. The remaining digits are an internal revision number.

To exit the service program:

• Press the service switch, or switch off the power supply to the machine.



Component units

Electromechanical timer



- Fig B1 Level control for monitoring water levels. The level control also prevents the machine from boiling dry and from extracting with water in the machine.
 - B11 Thermostat which controls the wash temperature by switching off the heating elements when correct temperature is reached. This thermostat also controls cool-down.
 - E10 Motor control for motor rotation direction, speed and times in the various program steps.
 - H1 Indicator light which comes on when the program has started.
 - K21 Relay for switching the heating elements.
 - LC1 Interference suppression unit.
 - M21 Timer which controls the sequences of the different programs as shown in relevant program table.
 - S5 Wash program selector knob.
 - S6 Start button.
 - S7 Option button "Heavily soiled".
 - S8 Option button "Rinse stop", which stops the programmer before final extraction, or optionally "No extraction".
 - S19 Option button "Extra rinse" (program variant P41 only). This button affects normal programs only.
 - S25 Push-button for door opening.
 - X Machine variant circuit board.

Electronic timer



- P1 Electronic, microprocessor-controlled timer which controls the sequences of the different programs as shown in relevant program table.
- E10 Motor control for motor rotation direction, speed and times in the various program steps.
- K21 Relay for switching the heating elements.
- LC1 Interference suppression unit.
- T1 Transformer.
- F Fuse.
- S Panel front with integral push-buttons.

Electromechanical timer



Fig The timer controls the various functions of the machine, such as water filling, drain and heating. The machine does not have a separate reverser (to control reverse operation of the motor), but instead this function is built into the timer, using signal codes to the motor control unit.

The timer consists of a program cylinder with fixed cams which actuate closing and opening contacts. The cylinder is driven by a synchronous motor.

Fig The table on the next page shows how the various contacts of the timer are activated (2) as the timer advances.

Rapid advance past various program sequences is achieved by activating the start button (S6), which sends a signal via the motor control unit to the synchronous motor.

The motor control unit ceases timing while water filling and heating are in progress, which means that the time these take is not included in the program times stated in the program tables.



Instructions for repair

In the event of a wash program fault, the cause of the fault must first be established. The fault may be caused by:

- Fault in timer. Replace the timer.
- Faulty variant circuit board. Replace circuit board.
- Fault in program selector. Replace program selector.

To replace the timer.



To remove the timer

- Fig 1. Remove the knob of the program selector using a 2 mm Allen key.
- 3 2. Remove the trim cap on the right-hand side of the panel (viewed from front).
 - 3. Remove the handle of the detergent dispenser.
 - 4. Remove the panel (5 screws).
 - 5. Remove the program indicator disk. Remove the screws holding the timer and take out the timer.





To install the new timer, repeat the steps shown under "To remove the timer" in the reverse order.

Test the machine by running a program.



To replace a variant circuit board



(5)

To be carried out by authorised personnel only.



- 1. Disconnect the circuit board all connections.
- 2. Remove the old circuit board.
- 3. Study the old circuit board carefully and make sure that the new one is strapped in the same way, or check in the table below to see which straps must be closed for the program installed in the machine.

Program	Closed straps
P01CH	A, F, I, N, P and V
P02CH	D, E, F, H, J, M, N, O, X and Z
P11C	C, F, G, I, K, N, O, V, Y and Z
P21CH	A, F, I, N, P and V
P31C	C, F, G, I, K, N, O, and V
P41C	B, F, G, I, P, and T
P51CH	A, F, I, N, P, and V
P61CH	C, F, I, K, N, O, V, Y, and Z

- Fig 4. Remove other jumper by breaking them off the board.
 - 5. Install the new board in the machine.
 - 6. Connect up the new circuit board.
 - 7. Test the machine by running a program.



Electronic programmer

Description

- Fig The timer is electronic and consists of a circuit board. On one half are the
- microprocessor, program memory, current supply circuits, temperature and level controls etc. On the other half are the relays and interference suppression components. The timer has the following inputs and outputs:
 - Inputs which detect when buttons on the control panel are pushed.
 - Inputs which provide information on the machine's status, from the door lock, level control, temperature sensors and coin mechanism if installed.
 - Outputs which via relays directly control the various functions of the machine, e.g. motor control, water valves and door lock.
 - Outputs which control which information will be shown on the display.
 - Communications port for communication with motor control.

The timer is controlled by the microprocessor, which fetches its instructions from the program memory. The program memory contains instructions for operation, the service program, control of relays, sensing of inputs etc. The memory also contains the standard programs built into the machine.



Service Manual

Instructions for repair

To be carried out by authorised personnel only.

To check the voltage feed

Check the following if a functioning fault arises:

- Check that the fuse on rear of machine beside motor control circuit board is sound.
- Check that the input feed voltages for the board are correct. Measure at board contact X72 between the following inputs:
 - X72: 1 3 approx. 3.75 V ~
 - X72: 4 5 approx. 14.5 V ~
 - X72: 6 7 approx. 13.5 V ~
- Check the three fuses on the circuit board (see Fig. on last page). Fuse rating 1 A/250 V.

If the fault remains after all these checks have been carried out, the whole circuit board will have to be replaced.

To remove the circuit board

- Fig 1. Remove the cover over the circuit board (7) (snap-on cover).
 - 2. Disconnect the electrical connections to the board.
 - 3. Remove level hose.
 - 4. Undo the screws holding the circuit board.
 - 5. Lift the board out carefully.



Electronic weighing system

Machines with an electronic programmer have a load weighing system which utilises the controllability of the motor system and the ability to determine motor speed.

Description of functions

The drum is accelerated up to distribution speed to detect any imbalance present. After that it is accelerated further at a controlled motor power, and the time taken to reach given speeds is measured.

Then the motor is shut off and the slow-down times are measured.

These time measurements are carried out by the motor control unit and relayed to the programmer.

The electronic programmer then calculates the weight of the load on the basis of these times.

All machines are calibrated before dispatch. In calibration, two machine constants are calculated which are stored in the programmer's EEPROM.

Manuel calibration takes place as follows: With the machine empty, code 61 of the service program is used, which activates a weight measurement. The programmer knows then that the load in the drum is 0 kg. The weight measured is stored in the programmer. Next a load of 3 kg (dry weight) is put into the machine and code 62 of the service program is used. The programmer knows then that the load is 3 kg and a further machine constant is obtained. With the aid of these machine constants, the programmer can then compensate for differences between different machines.

Replacing the programmer

If the programmer is replaced (changed over), the stored machine constants are lost.

For this reason, programmers supplied as replacement parts are preprogrammed and can be used without further calibration. The precalibration carried out makes use of an average value. To achieve optimum values for water and energy consumption, recalibration should performed when the programmer is in the machine.

If error code 16 appears on the display, weight measurement will need to be calibrated. It is still possible to wash a load, however, by pressing "START" a second time, but no weighing will take place and water saving will not be possible.

The motor control unit does not have any stored constants for weight measurement: all motor control units are the same. No special action is needed if the motor control unit has to be replaced.

Calibration of weighing system



Weight calibration set, art. No. 472 9903-53 should be used. If this is not used, three kgs of dry load can be used. But remember that the accurancy will be less than with the calibration set.

Switching to service mode

- Empty the drum.
- Remove the machine top.
- Fig. Press the service switch. The switch is located
- (8) on the left-hand edge of the circuit board as viewed from above. The display will now show SE, which indicates that you are in the service program.
- Fig. Now the buttons switch to being number keys from 1 to 9. The START/door-opening button has an ON/OFF function.





Service Manual

- Fig. Enter code 61.
- (10)
- Fig. Press and hold the START button. Press the service switch and release.
 - (Double command to prevent unintentional calibration.)
 - The machine will now start the calibration phase and will show code 61 flashing when calibration with the drum empty is finished. If code 61E flashes on and off on the display, this means that calibration was unsuccessful. Try again.
- Fig. Open the door using code 23.
- (12)

(16)

- Fig. Lock the drum with the calibration set (alt. 3 kgs of dry laundry) and close the door.
- Fig. Enter code 62.
 - Press and hold the START button. Press the service switch and release both buttons.
 - The machine will now start the calibration phase and will show code 62 flashing when calibration with a load in the drum is finished. If code 62E flashes on and off on the display, this means that calibration was unsuccessful. Try again.
 - Exit from the service program by pressing the service switch.

The machine's weighing system is now calibrated.

• Open the door and remove the weight calibration set alt. the load.

















Description

The relay consists of:

- Fig Housing in two halves with fixed, closing and/or opening contacts.
 The separate halves are held together by spring clips.
 - Movable contact bridge with movable contacts.
 - Magnet with coil and core.
 - In some cases an auxiliary relay block, to increase the number of contacts.

The upper section of the core is sprung, and attached to the movable contact bridge.

The fixed, lower section of the core has shielded windings which distribute the flow through the core. In this way the flow never sinks to 0 and alternating-current hum is prevented.



Instructions for repair



Relay will not close or open

• Check that the coil is energised. If it is, measure on the coil to find the site of interruption.

The relay is humming loudly

- Undo and dismantle the relay:
 - Remove the auxiliary relay block as described in "To replace an auxiliary relay block".
 - Release the relay and lift it out.

Note!

The contact cables do not need to be removed!

- Release the spring clips and carefully separate the two halves of the housing. Take care so that the movable contacts do not spring out of place.
- Before reassembling the relay, check that the magnetic core contact surfaces are clean and undamaged. Reassemble and put back the relay.
- Check that the shielded windings are intact. (Damaged shielded windings cause a loud hum.) If the windings are damaged, replace the relay.
- Check that there is no foreign matter on the contact surfaces of the magnetic core. Clean carefully with a fine emery cloth if necessary.

The relay is binding

- Undo and dismantle the relay as described above.
- Check that the coil bobbin does not have any burrs which might hinder the movement of the movable half of the core. Remove any burrs if necessary.
- Check that the movable contact bridge can move freely in the relay housing and that the movable contacts are positioned correctly in their holders.
- If the fault persists, replace the relay.

To replace an auxiliary relay block

Fig • To remove the auxiliary relay block, use your

- (2) thumb to press its rear edge forwards and upwards until it comes free (the rear edge is the one marked HN01/HN 10).
 - To fit an auxiliary relay block:
 - Position the block on the relay so that its black catch is inserted by the pole clips and its red catch is inserted into the recess in the movable contact bridge.
 - Press the block towards the rear until its rear edge snaps down and locks in place.
 - Check functioning of the auxiliary relay block by pressing and releasing its red/green pin (in middle of the block), making sure that the relay block is not binding.



Machines with electromechanical timer

Description

Service

Manual

- Fig The "level control" is a pressure switch which
- monitors two different water levels in the drum by sensing the air pressure in a tube which is connected to the bottom of the drum. As the water rises in the drum and the tube, the air inside the tube is compressed and at two set pressures ("cut-
- ^{Fig} out-levels") two different changeover contacts in the level control switch over.

When the water is emptied from the drum the contacts switch back to their starting position again, but now at lower water levels than were needed to switch the contacts when the drum was filling. These levels are called "on-levels". If during a wash the water should sink below on-level, the machine will be filled with water again to cut-out-level.

Checking functioning and fault location

All level controls are preset at the factory for the various types of machine. As a general rule this setting should not be altered (for this reason level controls are sealed with lacquer).

A faulty level control cannot be repaired but should be replaced.

Note!

The machine warranty is invalidated if any modifications or repairs are made to the level control.

To check water levels

- Fig Start the machine and select a normal program.
- ⁽²⁾ Check the low level during a prewash or main wash.
 - Use the START button for rapid advance and check the high level during a rinse.

If machine is filling to a level which is too high:

- Check that the tube between the level control and the drain valve is not blocked. If necessary clean it by disconnecting it at the level control end with no water in the machine and blowing it clean.
- Check that no holes have been worn in the tube, something which could occur if the tube has been touching the pulley.
- Over-filling can also be caused by burnt contacts in the level control. If this is the case, replace the level control.
- Test the machine by running a program.




The machine is not taking in water

- Check functioning of level control as follows:
 - Connect meter across contact terminals.
 - Disconnect the tube at the drain valve end.
 - Blow gently into the tube and check the contact functions with the meter.
- Failure to take in water can also be caused by burnt contacts. If this is the case, replace the level control.

When replacing the level control

- Blow the tube clean before installing the new level control.
- There must be no water in the machine when the new level control is being fitted.

Adjustment of level control

The machine warranty will be invalidated if the seal on the level control is broken without permission from the manufacturer. After any adjustment a new seal must be put in place.

Fig The level control has two adjustment screws for high (3) water level and two for low water level.

For each level, the screws have the following function:

 The level screw raises (if turned clockwise) or lowers the switching point for both on-level and cut-out-level.

Note!

These screws must not be turned too far in the clockwise direction. If they are, the springs under the screws can come loose and the level control will then be unusable.

 The hysteresis screw increases (if turned clockwise) or reduces the distance between onlevel and cut-out-level. The cut-out level is not altered by this adjustment.

Always adjust the cut-out-level first using the level screw, and then adjust the on-level with the hysteresis screw.

Test the machine by running a program.



Machines with electronic timer

Description

The "level control", which is located on the circuit board, is a pressure switch which monitors the different water levels in the drum by sensing the air pressure in a tube which is connected to the bottom of the drum. As the water rises in the drum, the air inside the tube is compressed and at a set pressure ("cut-out-level") the microprocessor cuts out water filling.

When the water is emptied from the drum the microprocessor switches back to the starting position again, but now at lower water levels than were needed to switch when the drum was filling. These levels are called "on-levels". If during a wash the water should sink below on-level, the machine will be filled with water again, to cut-out-level.

Checking functioning and fault location



To be carried out by authorised personnel only.

A faulty level control cannot be repaired. Instead the whole circuit board must be replaced.

To check functioning of the level control

- Fig
 Start the service program by pressing the service button. Now certain of the buttons switch to being number keys (1 to 9).
- Fig
 Enter code 24. Now the display will show the current level in the machine on a scale of 1 to 200. An empty machine should show a value between 0 and 4.
 - Press the START button. The machine will start to fill.
 - Check that the figure shown on the display is counting upwards as the water level rises.
 - After completing your check, stop filling by pressing the START button.
 - Enter code 21 and open the drain valve to empty the machine.
 - Quit the service program by pressing the service button.



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If machine is filling to a level which is too high:

- Check that the tube between the level control and drum is not blocked. If necessary clean it by disconnecting it at the level control end with no water in the machine and blowing it clean.
- Check that the tube is undamaged. It can be damaged if it has been touching the pulley.
- Test the machine by running a program.

Description

This description applies only to machines with an electromechanical timer (in those with an electronic timer the thermostat function is located on the circuit board).

- Fig The thermostat monitors temperatures through the
- program cycle. The relay for the heating elements is actuated with the aid of closing and opening contacts.
- $_{\mbox{Fig}}$ $\,$ The sensor for the thermostat is at bottom rear of the
- Outer drum, on the left of the heating elements. A capillary tube connects the sensor to the thermostat, which is on the component shelf in the machine rear. The temperature of the water affects the expansion of the liquid in the tube and therefore also the activation of the thermostat's various contacts.

Selection of contact, i.e. the relevant temperature 90°C, 60°C, 40°C or 30°C is controlled by the timer and program selector.

Data

Range off - on	approx. 4°C
Max. temperature for sensor 150°C	
Sensor medium	Liquid

Instructions for repair

All thermostats are preset at the factory for the various types of machine. This setting must not be altered. For this reason thermostats are sealed with lacquer.

Note!

The machine warranty is invalidated if any modifications or repairs are made to the thermostat.



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1

To replace the thermostat



- Remove the rear panel and pull the thermostat sensor out of the outer drum.
- Undo the strapping on the capillary tube.
- Replace the thermostat.
- Install the new capillary tube along the same route as the old one.



Make sure that you secure the capillary tube with its protective sleeves and the correct number of rings in exactly the same places as the old one. This is essential to minimise the risk of failure in the capillary tube when the drum is moving.

• Test the machine by running a program.

Door

Description

- Fig The door is mounted on the balance weight
- (1) attached to the machine outer drum. The door glass is held in the door by the special door gasket, which also forms a seal directly against the outer drum when the door is shut. The glass is not bonded and is therefore easy to replace.

Leaking door seal

If the seal shows no signs of scratches or other damage, a loss of elasticity in the seal may be the cause of a leak. Replace the seal.

Leaks from the door seal can also be caused by dirt and build-up of lint. Clean the seal.

Door lock

Description

The machine door lock is a safety system which prevents injury because:

- The machine cannot be started until the door is closed.
- The door cannot be opened until the wash program is ended and the drum is at a standstill.

The lock is built on a lock housing and its electrical components are connected using flat pin connections. The lock consists of the following components:

- Lock slide.
- Fig (2)
- Traction magnet which actuates the lock bolt.
- Safety switch which indicates the position of the lock slide (door open or door locked).
- Bimetallic relay, which works as follows:
 - In machines with an electromechanical programmer, the relay via its electrical contact prevents the motor from starting until the bimetallic strip has warmed up.
 - In machines with an electronic programmer, the relay sends a signal to stop the machine and display error code 03 if the relay's contacts have not closed within 30 seconds.

The movement of the bimetallic strip also controls a mechanical latch which prevents the door from being opened with tools when the bimetallic strip is hot.





Function

Machines with electromechanical timer

When the door is closed, the lock's safety switch closes, which indicates to the timer that the door is locked and the machine is ready to start.

Another safety switch, actuated by a pin on the lower edge of the door sends a goahead signal to the motor control.

By activating the start button the timer advances one step and at the same time the bimetallic relay is energised, so its bimetallic strip starts to heat up. The movement of the bimetallic strip moves the latch across the opening for mechanical operation of the locking mechanism and thus prevents the door from being opened when the machine is working and when there is water in the machine.

In the bimetallic relay there is an electrical contact which is actuated by the movement of the metal. When the bimetallic strip has warmed up the contact closes, and only then is the motor allowed to start. The time delay is approx. 20 seconds. Other functions in the machine are allowed to operate as soon as the door is closed.

At the end of the wash program the switch for door opening is energised. When the switch is pressed in, the traction magnet is activated, whereupon the lock catch is freed and the door is opened.

If the electrical supply to the machine should be cut during a wash cycle the delay unit will keep the door locked for approx. two minutes so that the drum will stop rotating and the machine will empty (the drain valve is opened automatically if the power supply is cut).

Machines with electronic timer

When the door is closed, the lock's safety switch closes, which indicates to the timer that the door is locked and the machine is ready to start.

A safety switch, actuated by a pin on the lower edge of the door, sends a go-ahead signal to the motor control.

When the start button is activated the machine starts the program selected. At the same time the bimetallic relay is energised, so its bimetallic strip starts to heat up. The movement of the bimetallic strip moves the latch across the opening for mechanical operation of the locking mechanism and thus prevents the door from being opened when the machine is working and when there is water in the machine.

In the bimetallic relay there is also an electrical contact which is actuated by the movement of the metal. When the bimetallic strip has warmed up the contact closes and sends a signal to the electronics that the wash program can start. If the contact does not close within 30 seconds, the wash program will be stopped and the machine will halt. The error code 03 will be shown on the display.

At the end of the wash program the go-ahead signal for door opening (green LED) is sent. When the button for opening the door is activated the traction magnet is energised, which moves the lock slide and the door is opened.

If the electrical supply to the machine should be cut during a wash cycle the delay unit will keep the door locked for approx. two minutes so that the drum will stop rotating and the machine will empty (the drain valve is opened automatically if the power supply is cut).

Instructions for repair

Possible faults

- Faulty safety switch
- Faulty traction magnet
- Faulty bimetallic relay
- Moving parts binding

To remove the door lock



- 1. Undo the two screws on the front panel and lift the panel off.
- 2. Undo four bolts in the door hinges and remove the door from the cover plate.
- 3. Undo the remaining three screws on the cover plate and remove the panel.
- 4. Replace the entire lock.
- 5. Reassemble the components in the reverse order. Do not forget cover over locking unit.
- 6. Test the machine by running a program.

Description

General

Fig The motor is mounted on a shaft under the outer drum and drives the inner

drum by means of a drive belt. To reduce motor noise and vibrations the motor mountings have rubber mountings. Between the motor and the outer drum is a belt tensioner which also has a rubber damper.

For its electrical connections the motor has a quick connector.

On the motor shaft there is a tachogenerator so the motor controller can keep the motor speed correct.

- It also gives the motor controller information so it can act as a rotation guard for checking that the drum is completely at a standstill before the door is opened.
- Act as a sensor for imbalance detection checking that the load is properly distributed before extraction.

The motor is a DC motor, in which the field winding and armature winding are in series with one another. The various motor speeds for normal action, distribution speed and extraction are regulated by a microprocessor-based motor control located on circuit board E10 in the automatic control unit. The motor windings are protected against overheating by a thermal cut-out (klixon).



Program start

Machines with electromechanical timer

The following conditions must be fulfilled before the motor can start:

- Motor not overloaded.
- Door shut.
- Go-ahead signal from timer (timer cam for motor operation activated).
- Bimetallic strip in door lock has heated up (contact closed).

Once the door is closed, a program is selected and the start button is activated, the machine starts to take in water but the motor cannot start before the end of a delay period of approx. 20 seconds. During this period a bimetallic strip is heating up and the door will be prevented from opening when the drum is rotating by means of a mechanical latch. If for some reason the bimetallic relay's electrical contact does not close, the motor will not start.

Machines with electronic timer

The following conditions must be fulfilled before the motor can start:

- Motor not overloaded.
- Door shut.
- Go-ahead signal from timer.

Once the door is closed, a program is selected and the start button is activated, the machine carries out a short extraction which does not form part of the program selected. During this extraction the electronics perform a weight measurement so that the optimum quantity of water can be used for the current wash load. After that the sequences of the program selected start up, the machine starts to fill and the motor to operate.

When the door is shut, a bimetallic relay is energised and its bimetallic strip heats up. An electrical contact in the relay is closed and sends a signal to the electronics that the door is closed. If for some reason the relay contact does not close within 30 seconds, the motor will stop and error code 03 will appear on the display.

Extraction

For extraction the motor operates in an extraction pattern which is always the same. The pattern is as follows:

Fig 1. A brief, fast extraction, which removes most of the water from the wash load.

- 2. A brief reverse action to allow optimum distribution of the load.
- 3. A distribution period, with unbalance sensing
 - Machines with electromechanical timer 6 seconds
 - Machines with electronic timer 20 seconds
- 4. Extraction at 550 rpm 30 seconds
- 5. Extraction at 800 rpm 2 minutes
- 6. Extraction at 1300 rpm remaining time out of the program's total extraction time.

The different extraction cycles in the different programs are achieved by varying the time that the motor will follow this extraction pattern.

During the distribution period the imbalance of the wash load is checked with the aid of a tachogenerator which signals the motor control whether extraction can take place or not. This is repeated a maximum of three times. After the third time the electronics unit decides whether the imbalance is "great" or "small".

- If the unbalance is "great" the wash program is ended without extraction.
- If the unbalance is "small", extraction will be performed, but at a reduced speed.



Belt tension

 $\begin{array}{ll} \mbox{Fig} & \mbox{The tensioning of the drive belt is preset at the} \\ \hline \ensuremath{\Im} & \mbox{factory.} \end{array}$

When checking belt tension, or after replacing components which affect belt tension, follow Fig. 3 here.

Note!

Belt tension is an important aspect of the machine's operation and should always be checked as part of service and maintenance.

Motor speed for "gentle action"

The motor normally works at 35 rpm during gentle action.

Fault location

To be carried out by authorised personnel only.

On the motor control circuit board there is an LED which indicates two types of fault:

- Fig
 If the LED is flashing, this indicates that motor is not operating at a time when it should be.
 - If the LED comes on and stays on, this indicates that the motor has been operating faster that the motor control has expected.

LED on motor control circuit board flashing

- Cut the power supply to the machine for a few seconds by turning the program selector to the "0" position and then back to a program. After approx. 20 seconds the motor control will send a signal to the motor. Check to see whether the motor moves slightly before the LED starts flashing:
 - Motor does not move. Go to next point.
 - Motor does move. The fault is in the rotation sensing device (tachogenerator). Trace the fault as follows:
 - 1. Switch off the power supply to the machine (switch on wall).
 - 2. Disconnect contact X94 for the motor from the motor control circuit board.
 - Check the functioning of the tachometer by connecting one of the following between pins 1 and 2 on X94:
 - an ohmmeter. A sound tachometer should give a reading of approx. 100 150 ohm.
 - a voltmeter (AC) and rotate the armature by hand. The voltmeter should react when the tachogenerator is rotating.





Service Manual

Check the voltage feed to the motor control: • Fig Disconnect quick connector X177. _ (5) Measure with voltmeter (AC) between pins 1 and 2 of X177. Right value = phase voltage. Check the motor's quick connector. 5 Tachogenerator Armature winding Field winding Field winding Klixon Klixon To D4 **Fachogenerator** Phase in Neautral out Neutral out NeutralTM A To motor To timer Earth Door ООВ∢⊩шО X94 X176 X93 X177 U 1 7 9 0 0 2 Λ O 444444 \cap Machines with electromechanical timer 8 \bigcirc 2205B Armature winding Armature winding Field winding Field winding Field winding Alixon To D4 **Fachogenerator** achogenerator Power supply To motor Phase in Neutral in To timer Earth Door X94 X177 X176 X93 0 0 2 [ſ 4 9 Ŋ 2 0 0 O 44444 Ĺ \cap Machines with electronic timer • P \bigcirc 2205A

- Fig Check the motor windings with an ohmmeter to detect any possible short-circuit or fault.
 - Check that the motor's carbon brushes are sound and correctly positioned. See under "To replace carbon brushes".
 - Check that the motor shaft can be turned. If it can't, the problem is probably bearing failure. Replace the motor (see under "To replace the motor").
 - If the motor feels abnormally hot directly after it has stopped functioning, its thermal cut-out has probably been triggered. Investigate the cause of the overload. Check that the motor and drum can revolve freely.

The thermal cut-out will reset automatically after about 30 minutes when the motor has cooled. Start the machine again and listen carefully for any abnormal noise.

If the thermal cut-out is triggered repeatedly the cause may be:

- short-circuit
- bearing failure in drum
- bearing failure in motor.
- If the motor appears to be sound, the site of the fault will probably be the motor control. Replace the circuit board.



LED on motor control circuit board comes on and stays on

- Cut the power supply to the machine for a few seconds by turning the program selector to "0" and then back to a program. After approx. 20 seconds the motor control will send a signal to the motor.
 - If the motor now works normally again the problem was probably caused by a mains voltage surge temporarily affecting the microprocessor of the motor control.

The fault will have been corrected by cutting the power supply.

- If the motor races out of control the probable cause of the fault will be that the motor control output stage transistor is short-circuited.

Replace the motor control circuit board.

The motor is very noisy or seizing

The cause will be bearing failure. Replace the motor (see below under "To replace the motor").

To replace the motor

- Fig 1. Release the belt tensioner and lift off the drive belt.
- 2. Undo and remove the holder securing the wiring harness to the motor's quick connector.
 - 3. Disconnect the motor's quick connector.
 - 4. Undo the motor's two remaining mounting points and lift the motor out.



To replace carbon brushes

(8)

- Fig. Remove machine front panel.
 - Disconnect electrical connections to the brushes (from both sides of motor).
 - Remove both old brush holders from motor.
 - Install the new brush holders and connect them.
 - Test the machine by running a program.
 - Refit the front panel.

To replace the tachogenerator

- Fig. Remove machine front panel.
- Disconnect the tachogenerator connections from terminal X194:7-8.
 - Remove the lock washer and lift it out of the old tachogenerator.
 - Fit the new tachogenerator and use the lock washer to secure it.
 - Connect the new tachogenerator to terminal X194:7-8.
 - Test the machine by running a program.
 - Refit the front panel.



Service Manual

Description

- Fig The valve is electromagnetically controlled and has
- a rubber membrane as its opening and closing element. The valve utilises the pressure of the water supply in its opening and closing cycles.
- Fig When the valve coil is not activated the valve is
- 2 closed. On account of the pilot pressure opening in the membrane, water pressure builds up above the membrane and keeps the valve closed.

When the coil is energised the armature is lifted and the water pressure above the membrane can be released through the pressure-equalisation duct to the valve outlet. Now the water pressure in the water supply can lift the membrane and the valve opens.

In the water intake line there is a fine-meshed filter to catch solid matter. This filter is easily removed for cleaning.

A suitable restrictor is fitted in the outlet to adapt the water flow to the requirements of the particular machine.

Data

Max. capacity without restrictor	outlet 10 l/min
	inlet 10 l/min
Water pressure range	0.05 - 1 MPa
No. of outlets	1, 2 or 3





Instructions for repair

Limescale can block the holes in the valve membrane and affect valve functioning.

To be carried out by authorised personnel only.

For this reason it is advisable to dismantle and clean the valve at regular intervals, determined by machine use, hardness of water supply and water purity.

Valve will not open

- Check that the coil is energised.
- Measure on the coil to identify any failure or short-circuit.
- Dismantle the valve (see under "To dismantle the valve") and check the openings in the valve membrane.
- Check the inlet filter and clean if necessary.
- Take out the coil and clean the surfaces of the magnetic cores.

Valve will not close

- Check that the valve is not energised. The valve is normally closed when the coil is not energised.
- Check the return spring.
- Check the membrane (pilot pressure opening).

To dismantle the valve

- Fig 1. Prise the valve coil free carefully with a screwdriver and pull the coil free.
- Fig 2. Undo the valve cover using the special tool and (4) an adjustable spanner. (The special tool is supplied with the machine, attached to one of the water hoses.)
- Fig 3. Reassemble the valve and test the machine byrunning a program.







Service Manual

Drain valve

Description

- Fig The water pressure in the cold water intake is used
- for closing the drain valve. There is a hose (1) connected between the water intake and the control valve (2). When the control valve is activated it opens and lets water into the supply line (3) which is connected to the drain valve. The water presses up a rubber membrane (4) and a plunger (5) with a pressure plate (6) which closes the valve's rubber membrane (7).

When the control valve shuts off water pressure to the drain valve the springs (8) pull back the plunger. The return water passes the control valve and runs out into the drain via the return hose (9).

Fault location



Drain valve will not close

Check that:

- Control valve (2) is energised.
- Hoses and control valve are not blocked, by disconnecting the supply line (3) at the drain valve and then activating the control valve.
- The rubber membrane (4) is intact.
- The plunger (5) is not binding.

Drain valve will not open

Check that:

- The return hose (9) is not blocked.
- The plunger (5) is not binding.



To replace entire valve or valve components

This work can be carried out more easily if the machine is inclined backwards. Check first which way the individual machine is mounted on/in the floor.

Removal

(2)

- Fig 1. Remove the front panel. Use Torx T20.
 - 2. Remove the door and its hinges. Use Torx T25.
 - 3. Remove the trim panel (three screws). Use Torx T25.
- Fig 4. Remove the hose from the valve's nipple for ③ water supply.
 - 5. Undo the nut (leave bolt in place) securing the valve to the right-hand side of the saddle.
 - 6. Undo and remove the bolts securing the valve on the left-hand side of the saddle. Pull the left side of the valve down a little and lift the valve off from the right-hand bolt. Separate the valve from the hose (6a).
 - 7. Remove the valve from the machine.
- Fig
 8. Replace the faulty valve with a new one or replace defective parts. For article numbers, see the spare parts list.

Installation

- 1. First fit the valve onto the right-hand bolt in the saddle.
- 2. Fit and then tighten the two bolts on the left-hand side. Tighten the bolt on the right.
- 3. Connect the hose for water supply.
- 4. Fit the hose from the drum on the valve. Use the rubber edge on the hose and pull down the hose over the valve cover. Check that the hose edge snaps into place over the lower edge of the cover.
- 5. Test the machine by running a program and check valve functioning and that the machine is not leaking.
- 6. Fit the trim panel, door and front panel. Lock the screws for the door and trim panel with locking fluid (Loctite no. 243).

To replace a component between the drum and the valve

This work can be carried out more easily if the machine is inclined backwards. Check first which way the individual machine is mounted on/in the floor.





Service Manual

Removal

- Fig 1. Remove the front panel. Use Torx T20.
- (2) 2. Remove the door and its hinges. Use Torx T25.
 - 3. Remove the trim panel (three screws). Use Torx T25.
- Fig 4. Undo the nut (leave bolt in place) securing the valve to the right-hand side of the saddle.
 - 5. Undo and remove the bolts securing the valve on the left-hand side of the saddle. Pull the left side of the valve down a little and lift the valve off from the right-hand bolt. Separate the valve from the hose (6a).
 - 6. Disconnect the hose from the drum (Fig. 3:6a).
 - 7. Disconnect the hose from the junction (Fig. 3:6b).
 - 8. Replace the faulty components.

Installation

- Fig 1. Fit the sleeve (A) on the drum's connector. Make sure that the collar is correctly positioned and is flush with the drum all around.
 - 2. Place the hose clip (B) on the hose connector (C).
 - 3. Fit the hose on the sleeve and check that it moves right up onto the groove on the sleeve, and that it is correctly aligned in relation to the junction.
 - 4. Place the hose clip (B) in position and tighten it.
 - 5. Place the other hose clip on the other hose connector (C). Fit the hose on the junction and tighten the hose clip. Check that the hose is pushed far enough into the junction.
 - 6. First fit the valve onto the right-hand bolt in the saddle.
 - 7. Fit and then tighten the two bolts on the left-hand side. Tighten the bolt on the right.
 - 8. Fit the hose from the drum on the valve. Use the rubber edge on the hose and pull down the hose over the valve cover. Check that the hose edge snaps into place over the lower edge of the cover.
 - 9. Test the machine by running a program and check valve functioning and that the machine is not leaking.
 - 10. Fit the trim panel, door and front panel. Lock the screws for the door and trim panel with locking fluid (Loctite no. 243).



To clean the hose between drum and junction

This work can be carried out more easily if the machine is inclined backwards. Check first which way the individual machine is mounted on/in the floor.

Removal

(5)

- Fig 1. Remove the front panel. Use Torx T20.
 - 2. Remove the door and its hinges. Use Torx T25.
 - 3. Remove the trim panel (three screws). Use Torx T25.
 - 4. Undo the nut (leave bolt in place) securing the valve to the right-hand side of the saddle.
- Fig 5. Undo and remove the bolts securing the valve on the left-hand side of the saddle. Pull the left side of the valve down a little and lift the valve off from the right-hand bolt. Separate the valve from the hose (6a).
 - 6. Disconnect the hose from the junction.
 - 7. Push the hose's connection to one side. Clean the hose by pressing on the bellows around it and removing any solid matter.

Installation

- 1. Fit the hose to the junction.
- 2. First fit the valve onto the right-hand bolt in the saddle.
- 3. Fit and then tighten the two bolts on the left-hand side. Tighten the bolt on the right.
- 4. Fit the hose from the drum on the valve. Use the rubber edge on the hose and pull down the hose over the valve cover. Check that the hose edge snaps into place over the lower edge of the cover.
- 5. Test the machine by running a program and check valve functioning and that the machine is not leaking.
- 6. Fit the trim panel, door and front panel. Lock the screws for the door and trim panel with locking fluid (Loctite no. 243).





Drain pump

Description

- Fig The pump is located under the drum inside the front of the machine. Access for cleaning
- (7) foreign matter (out of the discharge water) from the pump is through a cover on the machine front. The motor which drives the pump is activated from the timer.

Fault location

Machine not emptying

- Clean any foreign matter out of the pump.
- Check pump functioning:
 - Is the motor energised?
 - Has the impeller come loose from the motor shaft?

Machine cannot extract

9406

This fault can arise if the drain pump is blocked.

• Clean any foreign matter out of the pump.



Service Manual

Description

Fig The detergent dispenser is divided into three compartments: 1

- · Compartment 1 for prewash detergent
 - ٠ Compartment 2 for main wash detergent
 - Compartment 3 for fabric conditioner •

Water connections into the dispenser are fitted with dispersers which mix the detergent thoroughly with water and flush the compartments clean.

From the bottom of the dispenser the water is channelled down to the outer drum.



Description

- Fig The two heating elements are in the lower part of
- (1) the outer drum, accessible from the machine rear.
 - They are switched by a heating relay (K21), which
- Fig is controlled by the timer, level control and thermostat
- ⁽²⁾ thermostat.

The elements must never be activated without water in the drum. If they are, their fuses will blow.

Fault location

To be carried out by authorised personnel only.

If heating time is abnormally long

- Check with a multimeter to see if one of the elements is burnt out. For access to the elements, remove the machine rear.
- Build-up of limescale can reduce the efficiency of the elements. If necessary descale them with a suitable descaling product. Follow the manufacturer's instructions concerning quantity of descaler.

To replace an element

- Switch off the power supply to the machine at the main switch/wall switch and check that the power supply to the machine is off.
- Note how the elements are connected and then disconnect them.
- Undo the nut between the element connections and pull the element out.
- Guide the new element into its element holder in the bottom of the drum.
- Fit the new element and tighten the nut. Connect the element's electrical connections.
- Fill the machine and check that there are no leaks from the element.





Coin-operated machines

In coin-operated machines the prices for the various programs have to be programmed in.

Values from the coin mechanism (the accumulated value) can be read out with the aid of the service program.

If a machine is fitted with a coin mechanism after its original installation the relevant electronic circuitry will have to be activated before the prices can be programmed in.



Fig.

(2)

Only trained service personnel may use the service program and program in prices for coin operation.

Activation of electronic circuitry in machines fitted with coin operation after original installation.

- $\begin{array}{c} \textbf{Fig.} \bullet \quad \textbf{Press the service button.} \\ \hline (1) \end{array}$
 - Now certain of the buttons switch to being number keys (1 to 9).



Codes 91 and 92 are used to store the values for coin slots 1 and 2. For mechanisms with only one slot, only code 91 is used.

The values to be stored are the ratio of one coin to the other.

For example: if the coin slots are for a 1 crown coin and a 5 crown coin. The value 1 should be stored under code 91, and the value 5 should be stored under code 92.

Fig. • Enter code 91 using the buttons which have become number keys 9 and 1.

The display will now show 91.

- Fig. When entering the actual value: keep the price-programming button activated (the switch is located under te top cover at the right front edge). Enter the value 1 and then release the button.
- Fig. Enter code 92. The display will now show 92.
- Fig. Enter the value 5.
- Fig.• Exit the service program by pressing the
service button again.











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Price programming:

• Press the relevant program selector button.

When programming the price of a wash program plus option, press both the relevant program selector button and the option button.

Fig. • Keep the price-programming button activated.

Now the display shows 00 plus the coin symbol.

- Enter the price via the numerical key functions. The START button can now be used to enter 0.
- Release the price-programming button.

This procedure should be repeated for all programs.











B

4

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Description

- Fig The frame consists of a "saddle" with straps which is attached to a base plate by
- four strut dampers. The drum unit is mounted on the cradle and secured by the strap which is held together at the top of the outer drum.

The base plate stands on four adjustable feet on the floor.

The motor unit and drain valve are mounted on the underside of the cradle. In machines equipped with a drain pump, this is mounted on the base plate.



Tightening torques for especially important bolted unions

The following unions must be tightened to the torques specified here:

- $_{Fig}$ A. Between bearing strut and outer drum. 38 ± 5.7 Nm
- \bigcirc B. Between pulley and shaft. 38 ±5.7 Nm
 - C. Between shaft strut and inner drum. 38 ± 5.7 Nm
 - D. For strap between front gable and outer drum. $24\pm\!\!1.2$ Nm
 - E. For strap between cradle and outer drum. $24 \pm \! 1.2 \mbox{ Nm}$





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