



Service Manual Professional Washing Machine Type: WM70.C



Service manual

Type: WM70.C

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Updates

Rev	Date	Description	Initials
01	2010-07-12	First version developed	BPA
02	2011-11-17	New document structur and updated wiring diagrams	ISC
03	2012-04-20	Removed chapter General information, programme tables and added reference to use the user manual.	BPA
04	2012-09-17	Updated with new version of circuit diagram 80 896 27 Ver01	BPA
05	2012-10-01	Added programme chart with new Allergy programmes	BPA

Introduction

You are holding the service manual for WM70.C washing machines.

It should be easy to service a washing machine. It is important that you, as a service technician,

are provided the necessary conditions to work in an efficient and satisfactory manner. Our hope is that this service manual will prove a useful tool in your daily work.

The type plate is located on the inside of the front door (see image below).

Asko Appliances AB SE-534 82 Vara Sweden



BRUKSANVISNING

Ha alltid maskinens brukanvisning tillgänglig vid service

Troubleshooting strategy

At Asko, we believe in always remaining focused on the customer, and as an ASKO service technician, you are one of the most important ambassadors of our brand. As such, it is important that the customer finds the service callout a pleasant experience. Troubleshooting is an important part of the service callout, and as such we have drawn up a troubleshooting strategy that describes, in broad terms and step by step, what you need to do to find and diagnose faults.



Panel WM70.C



Programmes: A total of twenty-two programmes, three of which can be customised via the service menu. A maximum of ten programmes can be activated/available to the end user at the same time.

Settings: Four (Language, Child-safe start, Automatic door opening, Temperature)

Knob and button descriptions

	Programme selector Turn clockwise or anti-clockwise to cycle through the different programmes and options in the various menus.
Start Stop	Start/Stop button • Start programme • Stop programme. Press and hold for 3 seconds.
Start Stop	 Key button Opens the door once the programme has ended. Opens the door during a programme to add more laundry. Confirm selection in the settings and service menus.

LCD description



Settings

Op	Opening the settings menu				
Start Stop F		Is the mac switch (SI Press and the main p	hine on? First turn off the power at the main power). hold the Key button (S5) while simultaneously pressing power switch (SI).		
Sta Sta	rt sp f 5X	Press the menu nov	Key button (S5) 5 times within 10 seconds. The settings v opens.		
Cł	oosing a setting (n example)			
I		Turn the programme selector (JI) to cycle through the settings menu options.			
2	Start FO	Press the Key button (S5) to select an item in the settings menu.			
3		Turn the programme selector (JI) to cycle through the different options for that setting.			
4	Start FO	Press the Key button (S5) to select one of the settings.			
5	Start Stop	Press the Start/Stop button (S4) to save the settings and return to the programme menu.			

Service menu content		Comments
Language	US English	Note: The language used under ''Special'' in the service menu is
	English	not changed (English only).
	Svenska]
	Dansk	
	Norsk]
	Suomi	
	Français	
	Deutsch]
	Italiano	
	Espanol]
	Русский	
	Nederlands	
Child-safe	Child-safe Off	You can temporarily disable Child-safe start by pressing
	Child-safe On	the Start/Stop button and the Key button simultaneously.
Door opening	Door opening Off	
	Door opening On	

... continous

°C/°F	°C	
	°F	
Water inlet	Cold	Valid for products manufactured from February, 2012. For
	Hot	products manufactured before February 2012, see service menu setting 21.

Service menu

Opening the service menu			
Start Stop F	If the machine is on: First turn off the power at the main power switch (SI). Press and hold the Start/Stop button (S4) while simultaneously pressing the main power switch (SI).		
Start Stop × 5	Press the Start/Stop button (S4) 5 times within 5 seconds. The service menu now opens.		

Na	avigating the service menu	
		Turn the programme selector (JI) to cycle through the different service menu options. - I Service - 2 Settings - 3 Special
2	Start -O	Press the Key button (S5) to select an option in the service menu.
3		Turn the programme selector (JI) to cycle through the different settings.
4	Start Stop	Press the Key button (S5) to select a setting.
5		Turn the programme selector (JI) to select one of the options.
6	Start Stop	Press the Key button (S5) to confirm/save or go back one step.
7	Start Stop Or	Press the Start/Stop button (S4) to return to the programme menu or use the programme selector to make additional choices. NB: The different options in the service menu vary in terms of the number of alternative selections and settings.

Service menu content

I Service	II Info	SP: XXXX	Date the software was programmed (Year_Week)	
		CM: XXXX	Date of manufacture of the control unit (Year_Week)	
		SW:	Software version	
		SW:	Software version	
		NC:	Number of cycles/programmes run	
		NC I:	Number of cycles for Programme 1	
		NC 2:	Number of cycles for Programme 2	
		V		
		NC 28:	Number of cycles for Programme 28	
	12 Fault scenarios	Fault I	Shows current fault. The display shows Fault name_Programme number_Number of cycles_ Index number.	
		Fault 2		
		Fault 3	Example: mermistoriault_rr3_7_(1)	
	13 Diagnostics	Test		
		Test valve 1	Inlet valve 1 is open.	
		Test valve 2	Inlet valve 2 is open.	
		Test valve SM	Inlet valve 1 and 2 are open.	
		Test valve 3	Inlet valve 3 is open.	
		Test heater	Heater on up to max. 60°C.	
		Test motor	The motor normally runs at 49 rpm.	
		Test drain	The drainage pump runs.	
		Test spin	The machine runs a spin sequence, the drainage pump runs.	
		Test door	The door lock is activated and the door opens. Returns to the programme menu.	
	14 Total reset		The machine is restored to its factory settings. Returns to the programme menu after Total reset.	
	15 ABC reset		The custom programmes (Pr20-Pr22) are reset. Returns to the programme menu after ABC reset.	
	Return	Press the Key I	ress the Key button (S5) to return to 1 Service.	

Service menu content (cont.)

2 Settings	21 Water	Cold	Valid for products manufactured before February 2012.
	inlet	Hot	
	21 HWC	Off (default)	Valid for products manufactured from February 2012.
		On	
	22 Max RPM	400 rpm	This function only works for programmes PrI-PrI9.
		600 rpm	
		800 rpm	
		1000 rpm	
		1200 rpm	
		1300 rpm	
		1400 rpm	
		1500 rpm	
		1600 rpm	
	23 Drain	Pump	
		Valve	
	24 Show	Temp Off	Only applies to the disinfection programmes (PrI7-PrI9)
	temp	Temp On	
	25 Change	PrI-Pr25	This can be changed in steps of I°C between -10°C to +10°C.
	temp		You cannot set a total temperature that exceeds +92°C.
	26 Programs	PrI-Pr28	Select "On" or "Off"
			Programmes can be activated/deactivated. A deactivated
			programme is not shown on the display.
			A maximum of 10 programmes can be snown on the display in programme mode. If more than 10 programmes are activated.
			then only the first ten activated programmes are shown on the
			display.
			If all the programmes have been deactivated, the display only
			shows "Prl".
			If the machine is Swan-labelled, "Pr1" and "Pr2" are always
	27 Spin time	0-300 sec	• Extend or shorten the spin time: 0-300 sec
		0-500 300	• If "0 sec" is selected, the pre-programmed spin time is used.
			• If a time in the interval "I sec" to "300 sec" is selected, this
			time is added to the pre-programmed spin time.
	28 Coin		See the wiring diagram for the correct connection and
			functionality of a slot meter.
	29 Reset		Lised only in production
	27 110500	production	
		reset	
	210	Off (default)	When On is choosed it shall be possible to temporally change
		On	to language in the machine. The language shall return to selected
			program is finished. This menu step is placed after program 28.
	Return	Press the Key	button (S5) to return to 2 Settings.

Service menu content (cont.)

3 Special	Pr 26	34 Pre wash	341 Number of	0/1/2/3	
			342 Water level	Normal water level/High water level	
			343 Time	1/2/3/4//15 (min)	
			344 Heat temp	No heat/25°C/26°C//60°C	
			Return		
		35 Main wash	351 Temperature	30°C/31°C//92°C	
			352 Water level	Normal water level/High water level	
			353 Reheat temp	28°C/29°C//90°C	
			354 Reheat time	0min/Imin//60°C	
			355 Work time	0min/1min//60min	
			Return		
		36 Rinses	I Rinse/2 Rinse//7 Rinses	e//7 Rinses	
		37 Extra spin	On/off		
		38 Spin speed	400/600/800/	'1000/1200/1300/1400/1500/1600 RPM	
		39 Spin time	0-300 sec		
		Return	Press the Key button to return to the previous menu level.		
	Pr 27	See above			
	Pr 28	See above			
	Return	Press the Key I	ey button (S5) to return to 3 Special.		

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Notes for custom programmes

Save these notes for future reference! Make a note of the settings you make when creating custom programmes (Pr20, 21, 22).

Save this note close to the machine

			Notes
Pr 26	34 Pre	341 Number of	
	wash	342 Water level	
		343 Time	
		344 Heat temp	
	35 Main	351 Temperature	
	wash	352 Water level	
		353 Reheat temp	
		354 Reheat time	
		355 Work time	
	36 Rinses		
	37 Extra spii	n	
	38 Spin spee	ed	
	39 Spin time		
Pr 27	34 Pre	341 Number of	
	wash	342 Water level	
		343 Time	
		344 Heat temp	
	35 Main	351 Temperature	
	wash	352 Water level	
		353 Reheat temp	
		354 Reheat time	
		355 Work time	
	36 Rinses		
	37 Extra spii	n	
	38 Spin spee	ed	
	39 Spin time	<u> </u>	
Pr 28	34 Pre	341 Number of	
	wash	342 Water level	
		343 Time	
		344 Heat temp	
	35 Main wash	351 Temperature	
		352 Water level	
		353 Reheat temp	
		354 Reheat time	
		355 Work time	
	36 Rinses		
	37 Extra spii	n	
	38 Spin spee	ed	
\mathbf{D}	39 Spin time		

13

Making a custom programme

You can make three custom programmes. This is done in the service menu. In order for the new programme to be made available, one of the existing programmes must be deactivated, that is, set to "Off", and the new programme set to "On". See also the "3 Special" section of the "Service menu content" chapter.

Opening the service menu		
Start Stop F	If the machine is on: First turn off the power at the main power switch (SI). Press and hold the Start/Stop button (S4) while simultaneously pressing the main power switch (SI).	
Start Stop × 5	Press the Start/Stop button (S4) 5 times within 5 seconds. The service menu now opens.	

Prog	Programming		
	\bigcirc	Turn the programme selector (JI) to ''3 Special''.	
2	Start Stop	Press the Key button (S5) to open the ''3 Special'' menu.	
3	\bigcirc	Turn the programme selector (JI) to cycle through the different options: Pr20, Pr2I, Pr22 and Return.	
4	Start Stop	Press the Key button (S5) to open one of the options, Pr20, Pr21 or Pr22. Now you can create your programme by selecting from the various options and settings.	
5		Turn the programme selector (JI) to cycle through the different menus: -34 Pre wash -35 Main wash -36 Rinses -37 Extra spin -38 Spin speed -39 Spin time Return	
6	Start Stop	Press the Key button to open one of the menus.	
7		Turn the programme selector (JI) to cycle through the different menu options.	
8	Start Stop	Press the Key button to save the setting and return to the previous menu level. Repeat steps 5 to 8 to program the remaining settings.	
9	Start Stop	Once you have finished creating the programme, press the Start/ Stop button (S4) to return to the programme menu.	

Activ	Activate the new programme		
I	Start Stop R	If the machine is on: First turn off the power at the main power switch (SI). Press and hold the Start/Stop button (S4) while simultaneously pressing the main power switch (SI).	
2	Start Stop × 5	Press the Start/Stop button (S4) 5 times within 5 seconds. The service menu now opens.	
3		Turn the programme selector (JI) to "2 Settings".	
4	Start Stop	Press the Key button (S5) to open the ''2 Settings'' menu.	
5		Turn the programme selector (JI) to ''26 Programs''.	
6	Start Stop	Press the Key button (S5) to open the ''26 Programs'' menu.	
7		Turn the programme selector (JI) to select the programme you want to deactivate.	
8	Start Stop	Press the Key button to open the menu.	
9		Turn the programme selector to ''Off'' to deactivate the programme.	
10	Start Stop	Press the Key button (S5) to confirm/save.	
		Activate your new programme by turning the programme selector to the programme you want to activate.	
12	Start Stop	Press the Key button to open the menu.	
13		Turn the programme selector to ''On'' to activate the programme.	
14	Start Stop	Press the Key button to confirm/save.	

Programmes

Programme name	Description
I. Normal wash (USA: Normal Hot) 60°C	Programme for normally to heavily soiled laundry, whites and colours. Follow the washing instructions for each garment. 60°C is a good temperature for garments worn next to the skin. This programme has five rinses.
2. Normal wash (USA: Normal Warm) 40°C	Programme for normally to heavily soiled laundry, whites and colours. Follow the washing instructions for each garment. This programme has five rinses.
3. Heavy wash 90°C	Programme for heavily soiled laundry, with dirt that needs to be fully dissolved before the main wash. A pre-wash is used to do this.
4. Heavy wash 60°C	Programme for heavily soiled laundry, with dirt that needs to be fully dissolved before the main wash. A pre-wash is used to do this.
5. White (USA: Sani) 90°C	Programme for normally to heavily soiled laundry. Follow the washing instructions for each garment. 90°C is a good temperature for white and light-coloured cotton, such as bed linen.
6. White/Colour (USA: White) 60°C	Programme for normally soiled laundry, whites and colours. Follow the washing instructions for each garment. 60°C is a good temperature for garments worn next to the skin.
7. White/Colour (USA: Colour) 40°C	Programme for normally soiled laundry, whites and colours. Follow the washing instructions for each garment.
8. Super quick wash (USA: Quick wash) 60°C	Fast programme for laundry that just needs freshening up. Follow the washing instructions for each garment. Garments worn next to the skin ought to be washed at 60°C.
9. Super quick wash 40°C	Fast programme for laundry that just needs freshening up. Follow the washing instructions for each garment.
10. Synthetics (USA: PermaPress) 40 °C	Programme for synthetics, delicate blended materials and permanent press cotton. Suitable for shirts and blouses. Follow the washing instructions for each garment. Many synthetics will come clean at 40°C.
II. Wool/hand wash 30°C	A gentle laundry programme for wool, silk and garments that should be washed by hand. This programme has a short spin.
12. Rinse	This programme performs one cold rinse cycle + spin. Suitable for laundry that just needs to be dampened.
13. MOP wash 60°C	Programme suitable for different types of mop. The programme has two rinses using much water.
14. MOP wash 90°C	Programme suitable for different types of mop. The programme has two rinses using much water.
15. Micro fibre wash 60°C	Programme for laundry made of micro fibres, such as micro-fibre cloths. The programme has three rinses with much water in the first rinse.
16. Micro fibre wash 40°C	Programme for laundry made of micro fibres, such as micro-fibre cloths. The programme has three rinses with much water in the first rinse.
17. Disinfection 40°C	Programme where the temperature reached during the main wash is maintained for 20 minutes. Disinfection at this temperature requires special detergent.
18. Disinfection 60°C	Programme where the temperature reached during the main wash is maintained for 20 minutes. Disinfection at this temperature requires special detergent.
19. Disinfection 90°C	Programme where the temperature reached during the main wash is maintained for 10 minutes. This temperature is sufficient for disinfection without special detergent.
20. Allergy cotton 90°C	

Programmable
Programmable
6. <u>- 6</u> . <u></u>
Programmable

Fault indicators

Error message	Cause	Action
Over flow fault	Too much water in the machine.	Service action: Check the machine's level system, inlet valve and
	The drainage pump is running but the machine is empty.	Grainage pump. Check for any leaks.
Water outlet fault	 The drainage pump has been running for 3 minutes. Water remains in the machine. The wash cycle is stopped and the programme is reset. 	 Check that nothing is stuck in the drainage hose outlet. Check that the drainage pump is not blocked by foreign objects. Check that there are no kinks in the drainage hose. Service action: If the pump only runs for a short while (approximately 20 seconds), this indicates a fault in the level system. Check the level sensor and hoses. Check the wiring and voltage to the pump. If necessary, replace the pump and/or control unit. After taking corrective action, run the Drain programme or press the Key (door opening) button to empty the machine.
Water inlet fault	If the correct water level is not achieved within five minutes the wash cycle will be stopped.	 Check that the tap on the water pipe is open. Service action: Check that the filter in the machine's water intake is not blocked. Check the inlet valve. If necessary, replace the valve. Check the voltage to the inlet valve. If there is no voltage, this could be due to a fault in the level system, wiring or control unit.
Security fault	The door is open	Close the door
Thermistor fault	I. Thermistor circuit open 2. Thermistor malfunction 3. The measurement value for the thermistor is <300 Ω (>120°C)	Service action: Check the thermistor. Replace if necessary.
Temperature fault	The temperature has increased < 5°C in ten minutes The wash cycle should continue to the next step of the programme.	Service action: Check the thermistor, heater, wiring and level system.
Wash motor fault	No signal from the tacho or MCU.	Service action: Check the output signal from the MCU and the wiring between the motor and the MCU.
Pressure fault	Indicated if the level drops to zero within 30 seconds of the first rinse.	Service action: Check for leaks.

Components and measurement values

ltem number	Component	Measurement value	Comment	
80 658 33	CIM motor	Resistances: Pins 1-3 stator 3.7 Ω Pins 1-2 stator 3.6 Ω Pins 2-3 rotor 3.6 Ω Pins 4-5 tacho 178 Ω		
80 617 03 80 617 04	Heating element 2000 W Heating element 1000 W			
80 761 02	Thermistor	6.I–3.8 kΩ (at room temperature 20–30°C)	The thermistor for measuring temperature is located between the motor cradle and the drum. The thermistor measures and controls the water temperature, which can vary from 0 to 92°C. The heater is disconnected if the thermistor is short-circuited or disconnected from the programme control card.	
88 012 63	Drainage pump 50 Hz	44 Ω	The drainage pump is combined with an integrated fine filter trap, which can be cleaned	
88 012 64	Drainage pump 60 Hz	76 Ω	by the user. If the drainage pump has run for 3 minutes during draining, the programme stops, resets and a fault code is indicated on the displa. The pump has a capacity of 20 litres/minute.	
80 782 21	Level switch		Electromechanical level switch with two levels (see wiring diagram). Used to indicate levels for door opening, heat and overflow.	
80 762 02	EMC filter 50/60 Hz	680 Ω	The filter eliminates interference to and from the machine.	
80 793 24	Inlet valve	$3.7 \text{ k}\Omega \pm 0.5 \text{ k}\Omega$	Two-way inlet valve, 8 litres/minute	
80 798 73	Door lock	122 Ω	The door lock is electromechanical and equipped with a magnet.	
80 833 15	One-way inlet valve			
80 818 07	Motor control			
80 806 28	Control unit			
80 833 43	Communication unit			
80 083 65	Outlet valve			

Thermistor measurement values

Temp, °C	Resistance, ohm
0	15806
10	9634
20	6046
25	4841
30	3900
40	2579
50	1744
60	1204
70	848
80	609
85	519

Technical data

Height:	850 mm
Width:	595 mm
Depth:	585 mm
Weight:	73 kg
Cylinder volume:	60
Max. load capacity	8 kg/6 kg
Spin speed:	800-1600
Connection:	I-phase I6 A, 3-phase I0 A
Heater output:	2000 W/3000 W
Water pressure/inlet valve:	0.1–1 MPa, 1–10 kp/cm2, 10–100 N/cm2 8 I/min
Wash drum and liquid compartment:	Stainless steel
Outer panels:	Powder-coated and hot-galvanised sheet steel or stainless steel
Installation:	Stationary on four adjustable, rubber-clad feet
Water connection:	1.5 m PEX tubing, 3/4"–3/4" or 3/4"–1/2"
Drainage:	I.7 m polypropylene tubing
Protection class:	IP X4
Water consumption (tested normal programme)	59 litres, 3 rinses (5 kg/6 kg <72 litres, 5 rinses (6 kg) <69 litres, 5 rinses (5 kg)
Water consumption (tested normal programme)	1.02 kWh (6 kg) 0.95 kWh (5 kg)
Electricity consumption, Standby: - Machine turned off - Delayed start - Programme ended	<0.3 W <6.0 W <3.0 W

Tools

Torx: T25, T20, T10
Ring spanner: 11/16", 16 mm, 13 mm, 10 mm
Socket screwdriver 10 mm
Extended socket 24 mm + ratchet handle
Allen key 5 mm + small ratchet handle
Plastic hammer
Phillips screwdriver
Wire cutter

Wiring diagram WM70.C



RESISTANCES AT ROOM TEMPERATURE (CA. 20°C/68°F) VALUES WITHIN +/-10% ARE REGARDED AS NORMAL COMPONENT

F: RADIO INTERFERENCE SUPPRE	ESSION FILTER 680K Ohm
EL: HEATING ELEMENT	25 Ohm
AP: DRAIN PUMP 50 Hz	144 Ohm
AP: DRAIN PUMP 60 Hz	76 Ohm
AV: DRAIN VALVE	110/134 Ohm
LL: DOOR LOCK, 1-2	122 Ohm
NTC: THERMISTOR	6.1 - 3.8 K Ohm
IV 1: INLET VALVE 1	3.7 K Ohm
IV 2: INLET VALVE 2	3.7 K Ohm
IV3: INLET VLAVE 3	3.5 K Ohm
MO: MOTOR, 1-3	4,3±7% Ohm
1-2	4,3±7% Ohm
2-3	4,3±7% Ohm
MCU: MOTOR CONTROL UNIT N: PRESSURE SWITCH TS: PRESSURE SENSOR TG: TACHO GENERATOR BA: CONTAINER INKB: INCOMING GROUND CI: COMMUNICATIONS INTERFACE	USER SETTINGS MENU TURN OFF POWER (S1) WAIT FOR AT LEAST 5 SEC HOLD S5 TURN ON POWER (S1) PRESS S5 5 TIMES TO ENTER MENU

Start 500 S1 S4 S5

SERVICE MENU TURN OFF POWER (S1) WAIT FOR AT LEAST 5 SEC HOLD S4 TURN ON POWER (S1) PRESS S4 5 TIMES TO ENTER SERVICE MENU

PRESS DOOR OPENING (S5) TO CHANGE MENU STEP ROTATE DIAL TO CHANGE IN STEP PRESSING START/STOP (S4) STORES AND EXITS SERVICE MENU



CIRCUIT DIAGRAM WM70.C

80 886 19 - 00

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Wiring diagram WM70.C WC US/CA





2011-04-14

CIRCUIT DIAGRAM WM70.C WC US/CA

80 893 65 - 01

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RESISTANCES AT ROOM TEMPERATURE (CA. 20°C/68°F) VALUES WITHIN +/-10% ARE REGARDED AS NORMAL COMPONENT

F: RADIO INTERFERENCE SUPPRESSION FILTER 680K Ohm **EL1: HEATING ELEMENT** 25 Ohm **EL2: HEATING ELEMENT** 52 Ohm AP: DRAIN PUMP 60 Hz 76 Ohm AV: DRAIN VALVE 110 Ohm LL: DOOR LOCK, 1-2 122 Ohm NTC: THERMISTOR 6.1 - 3.8 K Ohm IV 1: INLET VALVE 1 3.7 K Ohm IV 2: INLET VALVE 2 3.7 K Ohm **IV3: INLET VALVE 3** 3.5 K Ohm MO: MOTOR, 1-3 4.3±7% Ohm 1-2 4,3±7% Ohm 2-3 4.3±7% Ohm MCU: MOTOR CONTROL UNIT USER SETTINGS MENU N: PRESSURE SWITCH **TURN OFF POWER (S1) TS: PRESSURE SENSOR** TG: TACHO GENERATOR WAIT FOR AT LEAST 5 SEC HOLD S5 **BA: CONTAINER TURN ON POWER (S1)** INKB: INCOMING GROUND CI: COMMUNICATIONS INTERFACE PRESS S5 5 TIMES TO ENTER MENU

S4 S5

SERVICE MENU

S1

TURN OFF POWER (S1) WAIT FOR AT LEAST 5 SEC HOLD S4 TURN ON POWER (S1) PRESS S4 5 TIMES TO ENTER SERVICE MENU

PRESS DOOR OPENING (S5) TO CHANGE MENU STEP ROTATE DIAL TO CHANGE IN STEP PRESSING START/STOP (S4) STORES AND EXITS SERVICE MENU

2010-05-20

CIRCUIT DIAGRAM WM70.C US/CA

80 896 25 - 00

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RESISTANCES AT ROOM TEMPERATURE (CA. 20°C/68°F) VALUES WITHIN +/-10% ARE REGARDED AS NORMAL COMPONENT

F: RADIO INTERFERENCE SUPPRESSIO	ON FILTER 680K Ohm
EL1: HEATING ELEMENT	25 Ohm
EL2: HEATING ELEMENT	52 Ohm
AP: DRAIN PUMP 60 Hz	76 Ohm
AV: DRAIN VALVE	110/134 Ohm
LL: DOOR LOCK, 1-2	122 Ohm
NTC: THERMISTOR	6.1 - 3.8 K Ohm
IV 1: INLET VALVE 1	3.7 K Ohm
IV 2: INLET VALVE 2	3.7 K Ohm
IV3: INLET VLAVE 3	3.5 K Ohm
MO: MOTOR, 1-3	4,3±7% Ohm
1-2	4,3±7% Ohm
2-3	4,3±7% Ohm
MCU: MOTOR CONTROL UNIT	
N: PRESSURE SWITCH	
TS: PRESSURE SENSOR	
TG: TACHO GENERATOR	
BA: CONTAINER	
INKB: INCOMING GROUND	
T: TRANSFORMER	

S1

SERVICE MENU

TURN OFF POWER (S1) WAIT FOR AT LEAST 5 SEC HOLD S4 TURN ON POWER (S1) PRESS S4 5 TIMES TO ENTER SERVICE MENU

PRESS DOOR OPENING (S5) TO CHANGE MENU STEP ROTATE DIAL TO CHANGE IN STEP PRESSING START/STOP (S4) STORES AND EXITS SERVICE MENU

USER SETTINGS MENU

TURN OFF POWER (S1) WAIT FOR AT LEAST 5 SEC HOLD S5 TURN ON POWER (S1) PRESS S5 5 TIMES TO ENTER MENU

2012-09-10

CIRCUIT DIAGRAM WM70.C MARINE

80 896 27 - 01

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Start Stop

S4 S5

Wiring diagram WM70.C HWC



RESISTANCES AT ROOM TEMPERATURE (CA. 20°C/68°F) VALUES WITHIN +/-10% ARE REGARDED AS NORMAL COMPONENT

F: RADIO INTERFERENCE SUPPRE	ESSION FILTER 680K Ohm
EL: HEATING ELEMENT	25 Ohm
AP: DRAIN PUMP 50 Hz	144 Ohm
AP: DRAIN PUMP 60 Hz	76 Ohm
AV: DRAIN VALVE	110/134 Ohm
LL: DOOR LOCK, 1-2	122 Ohm
NTC: THERMISTOR	6.1 - 3.8 K Ohm
IV 1: INLET VALVE 1	3.7 K Ohm
IV 2: INLET VALVE 2	3.7 K Ohm
IV3: INLET VLAVE 3	3.5 K Ohm
MO: MOTOR, 1-3	4,3±7% Ohm
1-2	4,3±7% Ohm
2-3	4,3±7% Ohm
MCU: MOTOR CONTROL UNIT N: PRESSURE SWITCH TS: PRESSURE SENSOR TG: TACHO GENERATOR BA: CONTAINER INKB: INCOMING GROUND CI: COMMUNICATIONS INTERFACE MV: MAGNETIC VALVE SV: SWITCHING VALVE	USER SETTINGS MENU TURN OFF POWER (S1) WAIT FOR AT LEAST 5 SEC HOLD S5 TURN ON POWER (S1) PRESS S5 5 TIMES TO ENTER MENU



SERVICE MENU

TURN OFF POWER (S1) WAIT FOR AT LEAST 5 SEC HOLD S4 TURN ON POWER (S1) PRESS S4 5 TIMES TO ENTER SERVICE MENU

PRESS DOOR OPENING (S5) TO CHANGE MENU STEP ROTATE DIAL TO CHANGE IN STEP PRESSING START/STOP (S4) STORES AND EXITS SERVICE MENU

1 Phase, 10 A

CM6

1 Phase, 16 A



2011-11-11

CIRCUIT DIAGRAM WM70.C HWC

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Panel and control card replacement

I. Attach the anti-static wristband to a part of the machine that is earthed!	
NB: An anti-static wristband must be used, otherwise you risk destroying the control card.	
2. Undo the three screws holding the top cover in place.	
3. Remove the top cover.	
4. Use a screwdriver to carefully free the panel. As you do so, carefully angle the panel outwards.	
5. Remove the panel and the cables. NB: Don't forget to remove the pressure sensor tube.	

Panel and control card replacement (cont.)

6. Carefully pull the programme selector from the panel.	
7. Use a screwdriver to free the control card from the panel. NB: The control card must be placed in an ESD-safe bag.	
8. Check that the push button, lens and decorative inlay are in place. Now carefully press the new control card into place. NB: Don't forget to replace the rubber seal.	

Wash agitator removal

When replacing or cleaning the wash agitators, or when removing items that have fallen through the wash drum, first you need to remove the agitators. Follow the instructions below.



