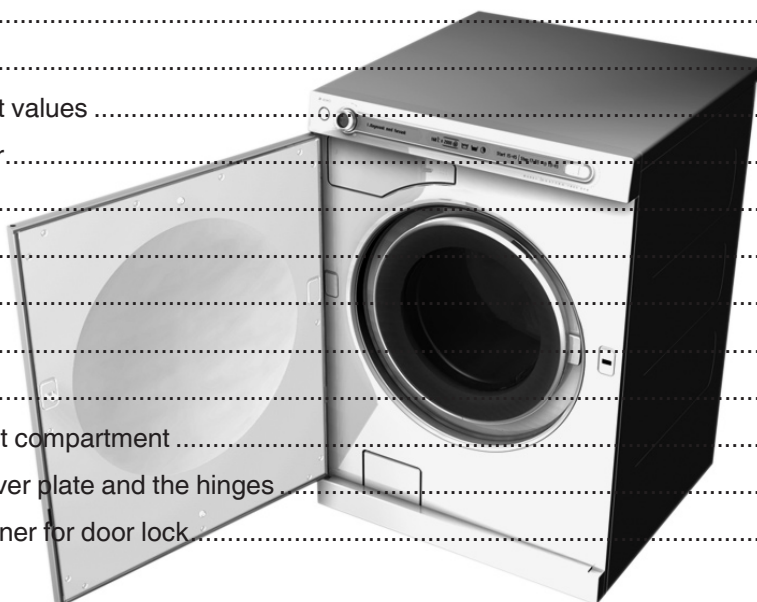


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This service manual describes washing machine type WM60 and is a supplement to the general service manual for the 600 series.

## ***Updates***

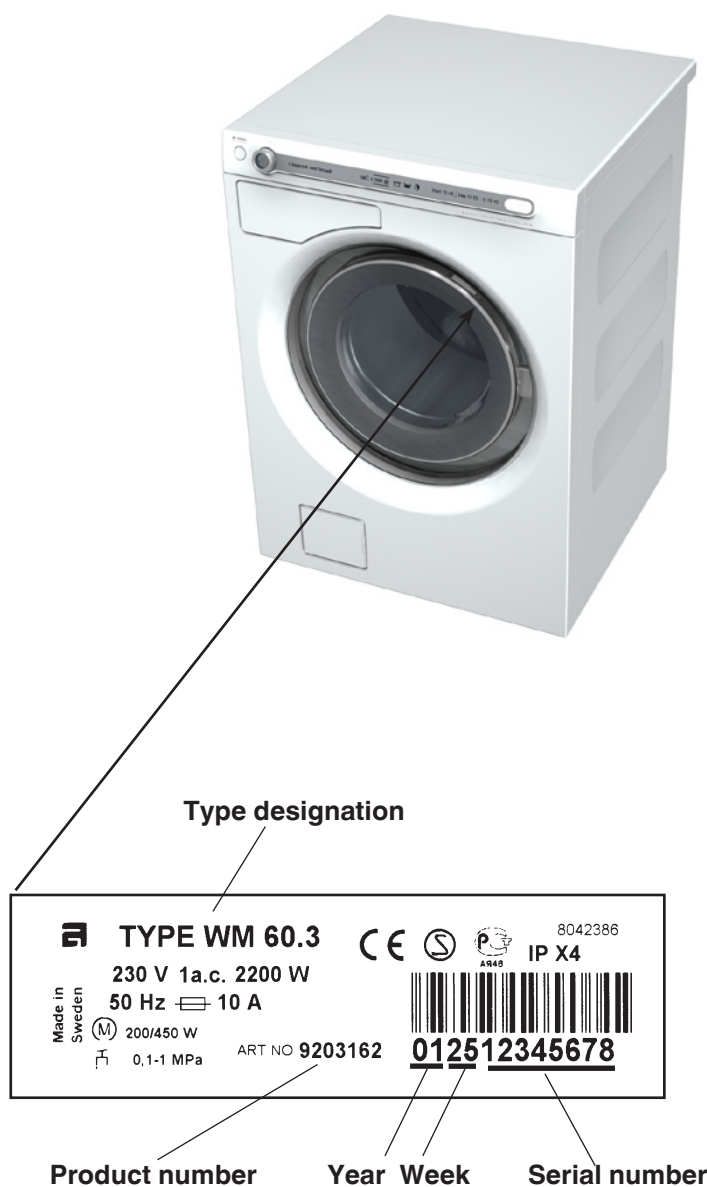
<b>Revision</b>	<b>Date</b>	<b>Description</b>	<b>Signature</b>
03	2007-11-27	Updated the "Show room program" /In-store demonstration program with a description for machines manufactured week 737 and later.	BPA
04	2007-10-11	Updated with WM60.2. WM60.3 added Stain program	MW

## Introduction

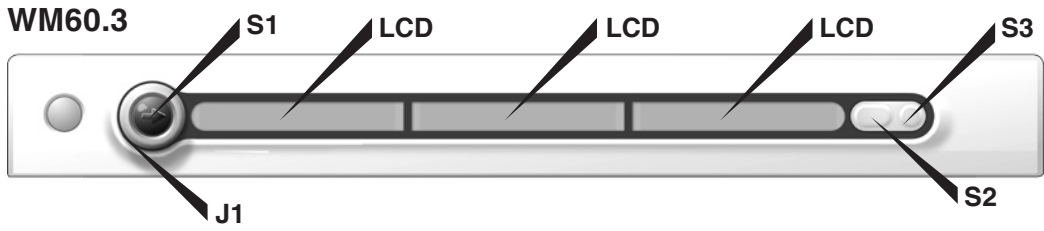
You are holding the service manual for WM60 type washing machines.

It should be easy to service a washing machine. It is important that you, as a service technician, are given the conditions to be able to carry out work in an efficient and satisfactory way. Our hope is that this service manual is a useful tool for your daily work.

The type designation is located by the inside of the glass door (see image below).

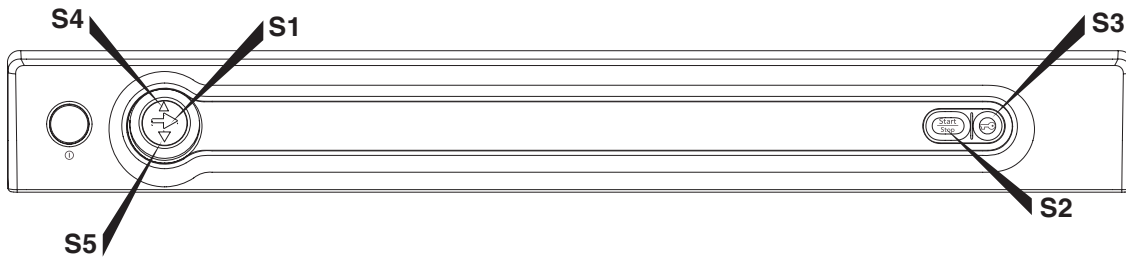


## Product overview



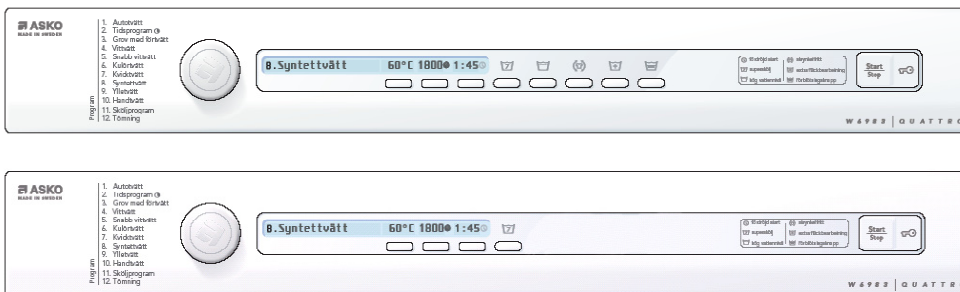
- Programs:** 14, where one consists of the menu for settings (Program 14)
- Options:** 6
- Settings:** 8

### WM60.3 (Integrated)



- Programs:** 14, where one consists of the menu for settings (Program 14)
- Options:** 6
- Settings:** 8

### WM60.2



- Programs:** 12
- Options:** 1 or 5
- Settings:** 3

## Program WM60.3

Program <b>5 rinses</b>										
	Pre-wash	Main wash	Temperature °C	Temperature °F	Max speed (rpm)	Max load	Rinses (number)	Water consumption (approx. litres)	Energy consumption (approx. kWh)	Program time (approx. min)
Program 1			60	140		1/1				
Program 2			60	140		1/1				
Program 3	X	long long	95 60	203 140	1600 1600	1/1 1/1	5 5	80 62	2,1 1,0	160 150
Program 4*		long	60	140	1800	1/1	5	< 69	1,02	145
Program 5		short	60	140	1600	1/2	5	56	0,9	100
Program 6		short	40	104	1600	1/2	5	56	0,5	80
Program 7		short	40	104	1600	1/2	3	35	0,4	50
Program 8		short	40	104	800	1/2	4	40	0,4	80
Program 9		short	30	86	800	1/3	3	80	0,5	45
Program 10		short	30	86	800	1/3	3	80	0,5	45
Program 11					1600	1/2	1	15	0,1	20
Program 12					1600	1/2			0,1	15
Program 13										1
Program 14 Settings										

Program is tested in accordance with SS-EN 60456/A13.

Program <b>3 rinses</b>										
	Pre-wash	Main wash	Temperature °C	Temperature °F	Max speed (rpm)	Max last	Rinses (number)	Water consumption (approx. litres)	Energy consumption (approx. kWh)	Program time (approx. min)
Program 1			60	140		1/1				
Program 2			60	140		1/1				
Program 3	X	long long	95 60	203 140	1600 1600	1/1 1/1	5 5	80 62	2,1 1,0	160 150
Program 4*		long	60	140	1800	1/1	3	< 54	1,02	135
Program 5		short	60	140	1600	1/2	3	35	0,8	80
Program 6		short	40	104	1600	1/2	3	37	0,4	70
Program 7		short	40	104	1600	1/2	3	35	0,4	50
Program 8		short	40	104	800	1/2	4	40	0,4	80
Program 9		short	30	86	800	1/3	3	80	0,5	45
Program 10		short	30	86	800	1/3	3	80	0,5	45
Program 11					1600	1/2	1	15	0,1	20
Program 12					1600	1/2			0,1	15
Program 13										1
Program 14 Settings										

Program is tested in accordance with SS-EN 60456/A13.

Program <b>5 rinses with Stain program</b>										
	Pre-wash	Main wash	Temperature °C	Temperature °F	Max speed (rpm)	Max load	Rinses (number)	Water consumption (approx. litres)	Energy consumption (approx. kWh)	Program time (approx. min)
Program 1			60	140		1/1				
Program 2										
Program 3			60	140		1/1				
Program 4	X	long long	95 60	203 140	1600 1600	1/1 1/1	5 5	80 62	2,1 1,0	160 150
Program 5*		long	60	140	1800	1/1	5	< 69	1,02	145
Program 6		short	60	140	1600	1/2	5	56	0,9	100
Program 7		short	40	104	1600	1/2	5	56	0,5	80
Program 8		short	40	104	1600	1/2	3	35	0,4	50
Program 9		short	40	104	800	1/2	4	40	0,4	80
Program 10		short	30	86	800	1/3	3	80	0,5	45
Program 11		short	30	86	800	1/3	3	80	0,5	45
Program 12					1600	1/2	1	15	0,1	20
Program 13					1600	1/2			0,1	15
Program 14										1
Program 15 Settings										

Program is tested in accordance with SS-EN 60456/A13.

Program <b>3 rinses with Stain program</b>										
	Pre-wash	Main wash	Temperature °C	Temperature °F	Max speed (rpm)	Max last	Rinses (number)	Water consumption (approx. litres)	Energy consumption (approx. kWh)	Program time (approx. min)
Program 1			60	140		1/1				
Program 2										
Program 3			60	140		1/1				
Program 4	X	long long	95 60	203 140	1600 1600	1/1 1/1	5 5	80 62	2,1 1,0	160 150
Program 5*		long	60	140	1800	1/1	3	< 54	1,02	135
Program 6		short	60	140	1600	1/2	3	35	0,8	80
Program 7		short	40	104	1600	1/2	3	37	0,4	70
Program 8		short	40	104	1600	1/2	3	35	0,4	50
Program 9		short	40	104	800	1/2	4	40	0,4	80
Program 10		short	30	86	800	1/3	3	80	0,5	45
Program 11		short	30	86	800	1/3	3	80	0,5	45
Program 12					1600	1/2	1	15	0,1	20
Program 13					1600	1/2			0,1	15
Program 14										1
Program 15 Settings										

Program is tested in accordance with SS-EN 60456/A13.

## Program WM60.2

Program 5 rinses										
	Pre-wash	Main wash	Temperature °C	Temperature °F	Max speed (rpm)	Max load	Rinses (number)	Water consumption (approx. litres)	Energy consumption (approx. kWh)	Program time (approx. min)
Program 1			60	140		1/1				
Program 2			60	140		1/1				
Program 3	X	long long	95 60	203 140	1600 1600	1/1 1/1	5 5	80 62	2,1 1,0	160 150
Program 4*		long	60	140	1800	1/1	5	< 69	1,02	145
Program 5		short	60	140	1600	1/2	5	56	0,9	100
Program 6		short	40	104	1600	1/2	5	56	0,5	80
Program 7		short	40	104	1600	1/2	3	35	0,4	50
Program 8		short	40	104	800	1/2	4	40	0,4	80
Program 9		short	30	86	800	1/3	3	80	0,5	45
Program 10		short	30	86	800	1/3	3	80	0,5	45
Program 11					1600	1/2	1	15	0,1	20
Program 12					1600	1/2			0,1	15
Program 13										1

Program is tested in accordance with SS-EN 60456/A13.

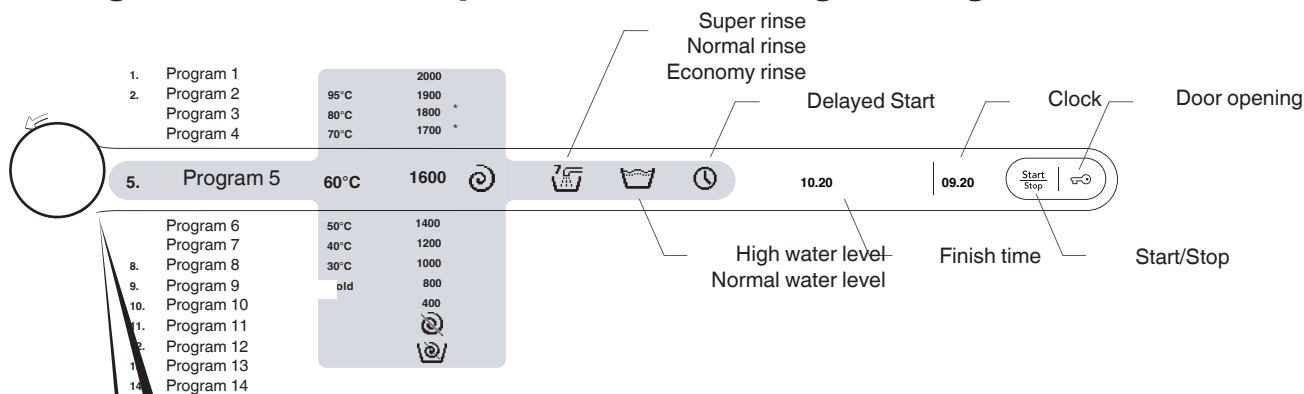
Program 3 rinses										
	Pre-wash	Main wash	Temperature °C	Temperature °F	Max speed (rpm)	Max load	Rinses (number)	Water consumption (approx. litres)	Energy consumption (approx. kWh)	Program time (approx. min)
Program 1			60			1/1				
Program 2			60			1/1				
Program 3	X	long long	95 60		1600 1600	1/1 1/1	5 5	80 62	2,1 1,0	160 150
Program 4*		long	60		1800	1/1	3	< 54	1,02	135
Program 5		short	60		1600	1/2	3	35	0,8	80
Program 6		short	40		1600	1/2	3	37	0,4	70
Program 7		short	40		1600	1/2	3	35	0,4	50
Program 8		short	40		800	1/2	4	40	0,4	80
Program 9		short	30		800	1/3	3	80	0,5	45
Program 10		short	30		800	1/3	3	80	0,5	45
Program 11					1600	1/2	1	15	0,1	20
Program 12					1600	1/2			0,1	15
Program 13										1

Program is tested in accordance with SS-EN 60456/A13.

Program		Type			
AU	US	WM60.3	WM60.3 from 826	WM60.2	WM60.1 (tbd)
Auto	Auto	X	X	X	
Stain prog	Stain Care		X choice		
Time program	Time Choice	X	X	X	
Heavy	Sani	X	X	X	
Normal	Stain	X	X	X	
White	White	X	X	X	
Colour	Color	X	X	X	
Quick	Quick	X	X	X	
Synthetics	PermaPress	X	X	X	
Wool	Wool	X	X		
Hand	Delicate / Hand	X	X		
Wool/hand wash	Wool/hand wash			X	
Rinse	Rinse	X	X	X	
Spin	Spin	X	X	X	
Drain	Drain	X	X	X	



## Program selection, options and making settings WM60.3



### Program selector

1. Press the program selector button to navigate between the different menus (e.g. to go from temperature menu to spin menu).
2. Turn the program selector button to make a selection in the menus (e.g. select 1400 rpm). Confirm the selection and go to the next menu by pressing the program selector button.
3. Press Start/Stop to start. Hold Start/Stop in for 3 seconds to exit the current program.




### Program selector button for integrated machines

1. Press the program selector button to navigate between the different menus (e.g. to go from temperature menu to spin menu).
2. Press the small arrows to make a selection in the menus (e.g. select 1400 rpm). Confirm the selection and go to the next menu by pressing the program selector button.
3. Press Start/Stop to start. Hold Start/Stop in for 3 seconds to exit the current program.

## Program selection

















The programs are displayed in the order they occur in LCD1. All display text language versions are displayed.






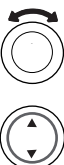





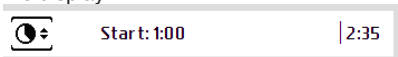

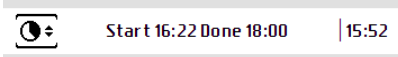





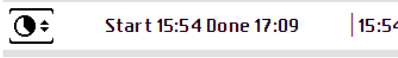

Press/turn	Pos.	LCD 1	Comments/instructions
			Turn on the main power supply

	1	Auto, Auto, Auto, Automatprogram, Autovask, Autovask, Automaattipesu, Automatique, Automatikprogramm, Automatico, Auto, Автоматическая, Automatisch programma	This program automatically adjusts the length of the main wash and the number of rinses depending on the amount of washing and how heavily soiled it is.
	2	Stain Care, Stain prog, Fläckprogram, Plet program, Flekkprogram, Tahraohjelma, Tache, Flecken-Progr., Prog Antimacchia, Manchas, Пятна, Vlekkenprog.	A special program for stains. Stain removal requires attention as soon as possible.
	3	Time program, Time Choice, Time program, Tidsprogram, Tidsprogram, Tidsprogram, Aikaohjelma, Program minute, Zeitprogramm, Progr. del tempo, Prog. de secado, Время окончания, Tijdprogramma	Choose a temperature up to 60°C/ 140 °F, set the spin speed to a maximum of 1600 rpm and set the time when you want the program to finish. The machine will automatically choose a program of the right length with the settings you have selected.
	4	Heavy, Sani, Heavy, Grov- med förtvätt, Kogevask+forvask, Intensiv m/forvask, Espesu + Tehopesu, Super intensif, Vor-/Kochwäsche, Intensivo, Sani, Интенсивная, Intensieve was	Use this program for heavily-soiled washing. You only need to use the maximum temperature, 60°C/ 140 °F, if the washing is very heavily soiled.
	5	Normal, Stain, Normal, Vittvätt, Hvidvask, Intensiv, Tehopesu, Super intensif blanc, Intensiv, Intensivo bianchi, Manchas-Color, Нормальная, Normale was	This program is equivalent to the Heavy program, but without the pre-wash. It is used for heavily-soiled whites where 95°C/ 203 °F is a suitable temperature.
	6	White, White, White, Snabb vittvätt, Hurtig hvidvask, Hvit, Normaalipesu, Intensif, Kochwäsche, Capi resistenti, Pesado, Белое, Witte was	Normally-soiled sheets, pillowcases and towels will come clean at 60 °C/140 °F.
	7	Colour, Color, Colour, Kulörtvätt, Kulört vask, Kulør, Päivittäispesu, Blanc/couleurs, Buntwäsche, Bianchi/colorati, Normal Plus, Цветное, Bonte was	Clothes worn next to the skin should be washed at 60°C/ 140 °F. Lightly-soiled laundry can be washed at 40°C. Most modern detergents are effective even at 40°C.
	8	Quick, Quick, Quick, Kvicktvätt, Kvikvask, Hurtig, Pikapesu, Rapide, Schnell, Rapido, Rápido, Быстрая стирка, Kort programma	Lightly soiled laundry that only needs freshening up can be washed for a short time at 40°C.
	9	Synthetics, PermaPress, Synthetics, Syntettvätt, Syntetisk vask, Syntet, Siliävät/ Synteettiset, Synthétique, Pflegeleicht/ Fein, Sintetici, Perma Press, Синтетика, Synthetische was	This program is suitable for shirts and blouses made of synthetic and blended material. Wash white items at 60°C/ 140 °F and coloured items at 40°C/ 104 °F.
	10	Wool, Wool, Wool, Ylletvätt, Uldvask, Ull, Villapesu, Laine, Wolle, Lana, Lavado manual/ Lana, Шерсть, Wolwas	This program is used for garments labelled for Wool wash only. The maximum temperature is 40°C/ 104 °F and the program has a short spin.
	11	Hand, Delicate / Hand, Hand, Handtvätt, Håndvask, Hånd, Käsinpesu, Main, Hand, A mano/delicati, Delicado, Ручная стирка, Handwas	This program is used for garments labelled hand wash only. The maximum temperature is 30°C/ 86 °F and the program has a short spin.
	12	Rinse, Rinse, Rinse, Sköljprogram, Skylleprogram, Skylling, Huuhteluohjelma, Rinçage, Spülen, Risciacquo, Enjuague, Полоскание, Spoelprogramma	This program performs one rinse cycle + spin. Good for cleaning cloths and mops.
	13	Spin, Spin, Spin, Centrifugering, Centrifugering, Sentrifugering, Linkous, Essorage, Schleudern, Centrifuga, Centrifugado, Отжим, Centrifugeren	To be used when you only want to spin the load.
	14	Drain, Drain, Drain, Utpumpning, Udpumpning, Ut pumping, Tyhjennys, vidange, Abpumpen, Scarico, Drenaje, Слив, Pompen	To be used when you only want to drain the water from the machine.
	15	Settings, Settings, Settings, Inställningar, Inställinger, Innstillinger, Asetukset, Réglage, Einstellungen, Impostazioni, Ajustes, Настройки, Instellingen	See chapter "Settings".
			Exits the program menu and advances to options or the menu for Settings.

## Selecting Options WM60.3


























The options are displayed in the order they occur in LCD2. All display text language versions are displayed.














Press/ turn	LCD 2	Comments/instructions	
	95°C, 205 °F	<b>Temperature</b> Selection of temperatures between Cold and 95°C. Cold is the same as the incoming water temperature. For program 8 and 9, the maximum temperature is 40°C, for program 10, the maximum temperature is 60°C.	
	80°C, 175 °F		
	70°C, 160 °F		
	60°C, 140 °F		
	50°C, 120 °F		
	40°C, 105 °F		
	30°C, 85 °F		
	Cold, Cold, Cold, Kalt, Kold, Kald, Kylmä, Froid, Kallt, Freddo, Fría, Доп.полоскание, Koud		
			
	2000 	<b>Spin</b> Option of choosing spin speed between 400 and 2000 rpm. Spinning at 400 – 800 rpm signifies a short spin. Program 8, 9 and 10 cannot be selected at speeds greater than 800 rpm. Program 2 has a maximum speed of 1600 rpm. Maximum rpm is either 1800 or 2000 rpm depending on model.	
	1900 		
	1800 		
	1700 		
	1600 		
	1400 		
	1200 		
	1000 		
	800 		
	400 		
			“No spin” means that the program does not include a spin cycle and ends by draining.
			“No draining” means that the program does not include a spin cycle and ends with the water from the final rinse still in the machine.
			










	 <p>Economy Rinse, Economy Rinse, Economy Rinse, Lätt sköljning, Økonomi skyl, Økonomi skylling, Ekohuuhtelut, Rinçage économique, Eco Spülen, Risciacquo economico, Enjuague económico, Норм. полоскание, Eco spoelen</p>	<p><b>Rinse</b> The rinse program can be selected in program: 3, 4, 5, 6, 7, 8, 9 and 10</p> <ul style="list-style-type: none"> <li>- Economy rinse (reduces the number of rinses, used for lightly soiled laundry)</li> <li>- Normal rinse (recommended number of rinses during normal soiled laundry.)</li> <li>- Super rinse (adds rinses, maximum 7)</li> </ul> <p>Number of rinses varies depending on program.</p>
	 <p>Normal Rinse, Normal Rinse, Normal Rinse, Normal sköljning, Normalt skyl, , Normaali huuhtelut, Rinçage normal, Normal Spülen, Risciacquo normale, Enjuague normal, Норм.полоскание, Normaal spoelen</p>	
	 <p>Super Rinse, Super Rinse, Super Rinse, Supersköljning, Superskyl, Superskyl, Superhuuhtelut, Super rinçage, Super Spülen, Risciacquo super, Superenjuague, Суперполоскание, Super spoelen</p>	
		
	 <p>Normal water level, Normal Water Level, Normal water level, Normal vattennivå, Normal vandstand, Normalt vannivå, Normaali vedenpinta, Niveau d'eau normal, Normaler Wasserstand, Livello acqua normale, Nivel normal de agua, Норм.уровень воды, Normaal waterniveau</p>	<p><b>High water level</b> Can be selected in programs: 3, 4, 5, 6, 7 and 8. Cannot be selected during No spin and No draining.</p> <p>With this option selected, extra water is taken in after approximately 15 minutes, the extra water is used in the main wash and rinses.</p>
	 <p>High water level, High Water Level, High water level, Hög vattennivå, Høj vandstand, Høyt vannivå, Korkea vedenpinta, Niveau d'eau élevé, Hoher Wasserstand, Livello acqua alto, Nivel alto de agua, Высокий уровень воды, Hoog waterniveau</p>	
		
	 <p>Start, Start, Start, Start, Start, Start, Start, Démarrer, Start, Avvio, Inicio, Старт, Start</p>	<p>Delayed start (when setting: "No Real time") The start of the selected program can be delayed for up to 24 hours (in half an hour intervals). The delay and program time is shown in the display.</p> 
	 <p>Start - Done, Start-End, Start-Done, Start-Klar, Start-Færdig, Start-Ferdig, Start-Valmis, Démarrer-Fin, Start-Fertig, Avvio-Fine, Inicio-Fin, Старт-Конец, Start-Gereed</p>	<p>Delayed start (when setting: "24 Hour Clock " or "12 Hour Clock") The start of the selected program can be delayed for up to 24 hours (in half an hour intervals). Start and end times are shown in the display.</p> 
		
	 <p>Start, Start, Start, Start, Start, Start, Start, Démarrer, Start, Avvio, Inicio, Старт, Start</p>	<p>Time program (when setting: "No Real time") Desired program time can be set. Selections up to 3 hours in units of 15 minutes can be made. The selected program time is shown in the display.</p> 
	 <p>Start - Done, Start-End, Start-Done, Start-Klar, Start-Færdig, Start-Ferdig, Start-Valmis, Démarrer-Fin, Start-Fertig, Avvio-Fine, Inicio-Fin, Старт-Конец, Start-Gereed</p>	<p>Time program (when setting: "24 Hour Clock " or "12 Hour Clock") Desired program time can be set. Selections up to 3 hours in units of 15 minutes can be made. Start and end times are shown in the display.</p> 
		

## Making setting WM60.3


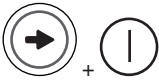

The setting options below are shown in the order they occur in LCD2 (Program 14 under the program menu is, however, shown in LCD1). All display text language versions are displayed. If no choices is done within 2 minutes the display will be set in Stand-by mode.

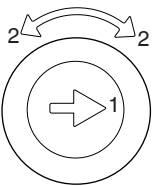

Press/turn	LCD 2	Press/turn	LCD3	Comments/instructions	
 	Settings, Settings, Settings, Inställningar, Indstillinger, Innstillinger, Asetukset, Réglage, Einstellungen, Impostazioni, Ajustes, Настройки, Instellingen			In the program menu: Scroll to Program 14 (Settings)  Program 14 is shown in LCD1.	
	You will now enter the Settings menu.				
 	Presoak, Presoak, Presoak, Förblötning , Iblødsætning, Bløtlegging , Liotus, Trempage, Einweichen, Ammollo, Remojas, Замачивание, Inweken				
		 	On, On, On, På, Til, På, Päällä, On, An, On, encendido, Вкл., Aan	The laundry will soak in cold water for two hours before the program starts.	
		 	Off, Off, Off, Av, Fra, Av, Poissa, Off, Aus, Off, apagado, Выкл., Uit	Setting deactivated.	
			Saves the setting and returns to the program menu, Program 14.		
	Anti crease, Anti Wrinkle, Anti crease, Skrynkelfritt, Anti-krøl, Antikrøll , Rypistymisen esto, Antifroissage, Knitterschutz, Antisgualcit., Antiarrugas, Против сминания, Anti-kreuk				
		 	On, On, On, På, Til, På, Päällä, On, An, On, encendido, Вкл., Aan	The drum rotates 3 seconds per minute for two hours after the program has ended.	
		 	Off, Off, Off, Av, Fra, Av, Poissa, Off, Aus, Off, apagado, Выкл., Uit	Setting deactivated.	
			Saves the setting and returns to the program menu, Program 14.		
	Clock, Clock, Clock, Кlocka, Ur, Klokke, Kello, Horloge, Uhr, Orologio, Reloj, Часы, Klok				
		 	24hr Realtime, 24 Hour Clock, 24hr Realtime, 24 timmarsvisning, 24 timers ur, 24t realtid, 24 h aika, Horloge 24 h, 24 Std. Echtzeit, 24h Tempo reale, Reloj 24 horas, Формат времени 24-ч., 24 uur weergave	Three O'clock is displayed as "15.00". Press S1 to access a sub-menu where you can set the correct current time. Press S1 again to store and exit the sub-menu.	
		 	12hr Realtime, 12 Hour Clock, 12hr Realtime, 12 timmarsvisning, 12 timers ur, 12t realtid, 12 h aika, Horloge 12 h, 12 Std. Echtzeit, 12h Tempo reale, Reloj 12 horas, Формат времени 12-ч., 12 uur weergave	Three O'clock is displayed as "03.00". Press S1 to access a sub-menu where you can set the correct current time. Press S1 again to store and exit the sub-menu.	
		 	No Real time, No Real Time, No Real time, Ej realtid, Intet ur, Ingen realtid, Ei aikaa, Pas d'horloge, Keine Echtzeit, No tempo reale, Sin hora real, Время не установлено, Geen tijdsweergave	No Real Time. Press S1 to return to program menu Program 14.	
		Saves the setting and returns to the program menu, Program 14.			

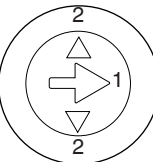

    	<p>Audible volume, Buzzer Volume, Audible volume, Ljudsignal volym, Lydsignal, Lydsignal, Hälytysääni, Volume buzzer, Tonsignal, Volume allarme, Volumen timbre, Громкость сигнала, Geluidssignaal</p>	<p>Off, Off, Off, Av, Fra, Av, Poissa, Off, Aus, Off, apagado, Выкл., Uit</p>	No buzzer		
		<p>Low, Low, Low, Låg, Lav, Lav, Matala, Faible, Niedrig, Bassa, Bajo, Низкая, Laag</p>	Buzzer that indicates the end of a program or error.		
		<p>Normal, Normal, Normal, Normal, Normal, Normal, Normaali, Normal, Normal, Normale, Normal, Нормальная, Normaal</p>	Buzzer that indicates the end of a program or error.		
		<p>High, High, High, Hög, Høj, Høy, Korkea, Elevé, Hoch, Alta, Alto, В?о?а?, Hoog</p>	Buzzer that indicates the end of a program or error.		
		<p>Saves the setting and returns to the program menu, Program 14.</p>			
   	<p>Child-safe, Child-safe, Barnsäker, Børnesikker, Barnesikring, Lapsilukko, Sécurité enfant, Kindersicherung, Avvio sicurezza, Int. de seguridad, Блокировка от детей, Kindveilige</p>	<p>On, On, On, På, Til, På, Päällä, On, An, On, encendido, Вкл., Aan</p>	If S1, S2, S3 or J1 are pressed or turned, S2 S1 must be pressed to temporarily deactivate the child-safe start (is deactivated for 3 minutes after last press of S1, S2, S3).		
		<p>Off, Off, Off, Av, Fra, Av, Poissa, Off, Aus, Off, apagado, Выкл., Uit</p>	Setting deactivated.		
		<p>Saves the setting and returns to the program menu, Program 14.</p>			
		   	<p>Automatic door opening, Automatic Door Opening, Automatic door opening, Automatisk lucköppning, Automatisk lugeåbning, Auto døråpning, Automaattinen luukun avaus, Ouverture auto porte, Automatische Lukenöffnung, Apertura autom.sportello, Apertura auto de puerta, Авто-открытие дверцы, Aut. deuropening</p>	<p>On, On, On, På, Til, På, Päällä, On, An, On, encendido, Вкл., Aan</p>	When then setting has been activated, the door will open automatically after the end of the program. Does not apply if Nodrain is selected (as there is still water in the machine).
				<p>Off, Off, Off, Av, Fra, Av, Poissa, Off, Aus, Off, apagado, Выкл., Uit</p>	Setting deactivated.
<p>Saves the setting and returns to the program menu, Program 14.</p>					

	Language, Language, Language, Språk, Sprog, Språk, Kieli, Langue, Sprache, Lingua, Idioma, Язык, Taal				
			US English		
			English		Default
			svenska		
			dansk		
			norsk		
			suomi		
			Francais		
			Deutsch		
			Italiano		
			español		
			Русский		
		nederlands			
	Saves the setting and returns to the program menu, Program 14.				
Temperature , F° or C° Setting, Temperature , Temperatur, Temperatur enhed, Temperaturehet, Lämpötilayksikkö, Unités de température, Temperatureinheit, Unità temperatura, Unidad de temperatura, Шкала температур, Temperatuurweergave					
		°C		Celsius	
			°F		Fahrenheit
			Saves the setting and returns to the program menu, Program 14.		
	Return, Return, Return, Tillbaka, Tilbage, Tilbake, Takaisin, Retour, Zurück, Uscire, Salir, Назад, Terug		Returns to the program menu, Program 14		

## Service menu WM60.3

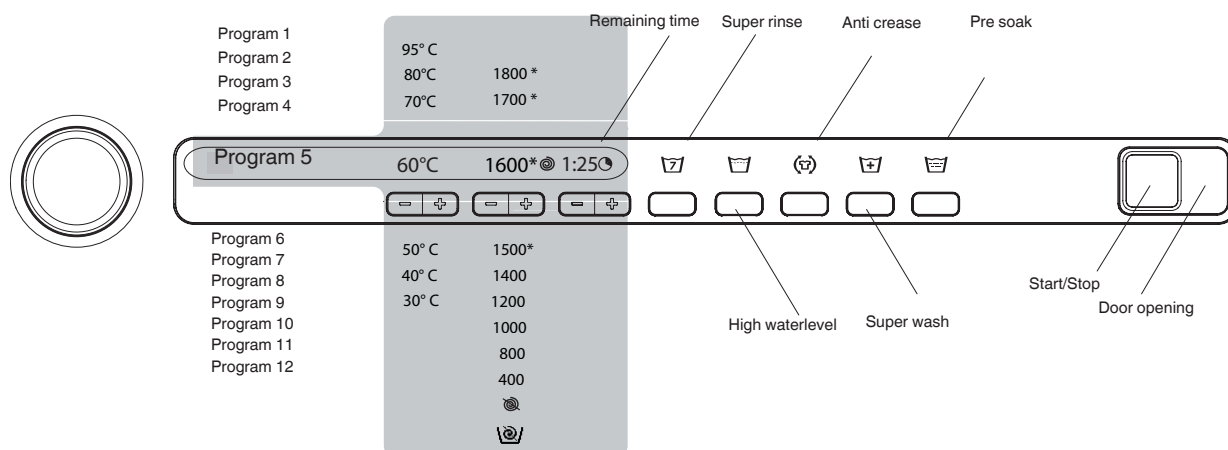
This is how to enter the service menu	
	If the machine is on: First switch the power off and then on via the main power switch.
	Press the program selector (S1) at the same time as the Main power switch.
	Press the program selector button 3 times within 5 seconds. You are now in the service menu (shown in LCD 2. See instructions below for navigating the service menu.

Program selector	
 	<ol style="list-style-type: none"> <li>1. Press the program selector button to scroll between the various service menus.</li> <li>2. Turn the program selector button to make a selection between the menus (e.g. set a certain water inlet). Confirm the selection and go to the next menu by pressing the program selector button (1).</li> <li>3. Press the Start/Stop button to confirm the settings and exit the service menu.</li> </ol>

Program selector button for integrated machines	
 	<ol style="list-style-type: none"> <li>1. Press the program selector button to scroll between the various options.</li> <li>2. Press the small arrows to make a selection between the options (e.g. set a certain water inlet). Confirm the selection and go to the next option by pressing the program selector button (1).</li> <li>3. Press the Start/Stop button to confirm the settings and exit the service menu.</li> </ol>








## Program selection WM60.2



## Selecting Options WM60.2

Push +/-		Comments/instructions
	95°C	Temperature Selection of temperatures between Cold and 95°C. Cold is the same as the incoming water temperature. For program 8 and 9, the maximum temperature is 40°C, for program 10, the maximum temperature is 60°C.
	80°C	
	70°C	
	60°C	
	50°C	
	40°C	
	30°C	
	Cold	
		Spin Option of choosing spin speed between 400 and 1800 rpm. Spinning at 400 – 800 rpm signifies a short spin. Program 8 and 9 cannot be selected at speeds greater than 800 rpm.
	1800	
	1700	
	1600	
	1500	
	1400	
	1200	
	1000	
	800	
	400	
		"No draining" means that the program does not include a spin cycle and ends with the water from the final rinse still in the machine.











Push +/-		Comments/instructions
	1-24 h	<b>Delayed start</b>
Push 	The maximum number of rinses is seven and varies depending on selected program. Can be used with all programs except Auto, Time, Rinse, Spin or Drain programs.	<b>Super rinse</b>
Push 	Additional water is used during the main wash and rinse cycles. The machine takes in the additional water for the high water level about 15 minutes after the main wash has started.	<b>High water level</b>
Push 	The drum rotate for three seconds /minute for two hours. Can be used with alla programs except Auto, Time, Wool/hand, No spin and Rinse.	<b>Anti crease</b>
Push 	Increases the time during which water is pumped into the machine. Can be used with alla programs except Time, Quick, Wool/hand and Rinse.	<b>Super wash</b>
Push +/-		Comments/instructions
Push 	The wasing will soak in cold water for two hours before the wash program starts. Can be used with alla programs except Auto, Time an, Sköljning.	<b>Pre soak</b>
















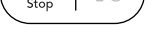
## Selecting Options WM60.2











		Comments/instructions
	<ul style="list-style-type: none"> <li>• Turn off the machine using the main power switch.</li> <li>• Press and hold the + on the Time button and the Super Rinse button, turn on the Main power switch.</li> <li>• Turn the program selector choose "Child-safe start off" or Child-safe start on"</li> <li>• Press Start/Stop button to store.</li> </ul> Deactivate Child-safe start by pressing Super Rinse and Start/Stop at the same time. The option will be temporarily deactivated for three minutes.	<b>Child-safe start</b>
	<ul style="list-style-type: none"> <li>• Turn off the machine using the main power switch.</li> <li>• Press Main power switch and Super rinse button.</li> <li>• "Door open is shown" on the display.</li> <li>• Press Start/Stop button to store.</li> </ul>	<b>Automatic door opening</b>
	<ul style="list-style-type: none"> <li>• Turn off the machine using the main power switch.</li> <li>• Press Main power switch and Start/Stop button</li> <li>• Turn the program selector and choose language.</li> <li>• Press Start/Stop button to store.</li> </ul>	<b>Language</b>

## Service menu WM60.3

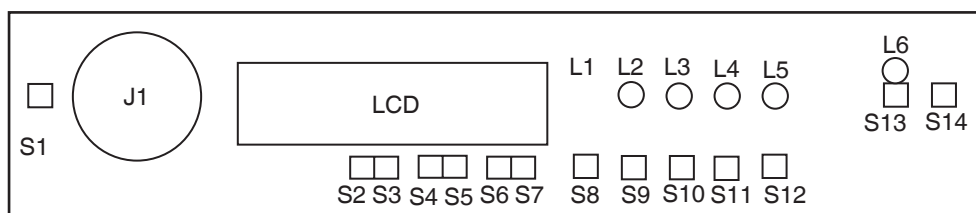
The options below are displayed in the order they occur in LCD 2. All display text language versions are displayed.

Press/ turn	LCD 2	Comments/instructions
 	DataSerialNo, Data Ser Num, DataSerialNo, DataSerialNo, Seriennummer, Seriennummer, Dataversio Nro, N° de série, Seriennummer, Num. di serie, N° de serie, Серийный номер, Seriennummer	Date for programming the software (Year_Week)
	CU date code, CU Date Code, CU date code, CU datum kod, CU dato kode, Styrekort prod dato, CU pvm koodi, Code date CU, CU Datumscode, Codice data CU, Código fecha CU, Код даты БУ, CU datacode	Control unit's date of manufacture (Year_Week)
	Software, Software, Software, Mjukvara, Software, Software ver., Ohjelmisto, Logiciel, Software, Software, Software, Версия прог., Software	Software version number.
	No. of cycles, Number of Cycles, No. of cycles, Antal cykler, Antal cyklusser, Antall bruk, Syklien lkm, Nb. de cycles, Anzahl der Zyklen, Numero cicli, N° de ciclos, Кол-во циклов, Aantal cycli	Number of cycles/programs run
	Press  to exit the service menu.	
 	"Error_Number of cycles"	Last three errors and number of cycles is shown. Total reset deletes the error indications from the system. Delete the error indications by pressing the DOOR OPENING BUTTON and the MAIN POWER SWITCH at the same time.
	"Error_Number of cycles"	
	"Error_Number of cycles"	
	Press  to exit the service menu.	
 	Testing	
	Test valve 1, Testing Valve 1, Test valve 1, Ventiltest 1, Tester ventil 1, Test av vannventil 1, Mg venttiilitesti 1, Essai vanne 1, Ventil testen 1, Test valvola 1, Test válvula 1, Тест клапана 1, Test inlaatventiel 1	Inlet valve 1 is open. Pressure sensor value is shown in LCD 2.
	Test valve 2, Testing Valve 2, Test valve 2, Ventiltest 2, Tester ventil 2, Test av vannventil 2, Mg venttiilitesti 2, Essai vanne 2, Ventil testen 2, Test valvola 2, Test válvula 2, Тест клапана 2, Test inlaatventiel 2	Inlet valve 2 is open. Pressure sensor value is shown in LCD 2.
	Test valve SM, Testing Valve SM, Test valve SM, Ventiltest SM, Tester ventil SM, Test av vannventil SM, Mg venttiilitesti SM, Essai vanne SM, Ventil testen SM, Test valvola SM, Test válvula SM, Тест клапана SM, Test inlaatventiel SM	Inlet valve 1 and 2 is open. Pressure sensor value is shown in LCD 2.
	Test heater, Testing Heater, Test heater, Elementtest, Tester varmelegeme, Test av element, Vastustesti, Essai résistance, Heizung testen, Test elem. riscald., Test elemento calef, Тест ТЭНа, Test verw.element	Heater is on until max 60 °C. Thermistor value is shown in LCD 2.

 	Test motor, Testing Motor, Test motor, Motortest, Tester motor, Test av motor, Moottoritesti, Essai moteur, Motor testen, Test motore, Test motor, Тест мотора, Test motor	The motor is running at normal action (49 rpm)
	Test drain, Testing Drain, Test drain, Tömningsstest, Tester udpumpning, Test av tømning, Tyhjennyspumpputesti, Essai vidange, Abfluss testen, Test scarico, Test drenaje, Тест насоса, Test afvoerpomp	Drain pump is on. Pressure sensor value is shown in LCD 2.
	Test spin, Testing Spin, Test spin, Centifugeringstest, Tester centrifugering, Test av sentrifugering, Linkoustesti, Essai essorage, Schleudern testen, Test centrifuga, Test centrifugado, Тест отжима, Test centrifugeren	A Spin sequence is performed, the drain pump is running. Unbalance value is shown in LCD 2.
	Test door, Testing Door, Test door, Dörrtest, Tester luge, Test av dørlås, Luukun lukon testi, Essai porte, Luke testen, Test sportello, Test puerta, Тест замка дверцы, Test deurslot	Door lock is activated, the door is then opened.
	Press  to exit the service menu.	
 	0 -15% -10% -5% +5% +10% +15%	Adjust water inlet volume. Default value is 0".
	Press  to exit the service menu.	
 	0 +3 +2 +1 -1 -2 -3	Adjust LCD contrast LCD. Contrast "0" (default)
	Press  to exit the service menu.	
 	Rinses3, Rinses3, Rinses3, Sköljning3, Skylninger3, Skylling3, Huuhtelut3, Rinçage3, Spült3, Risciacqui3, Enjuagues3, Полоскание3, Spoelen3 Rinses5, Rinses5, Rinses5, Sköljning5, Skylninger5, Skylling5, Huuhtelut5, Rinçage5, Spült5, Risciacqui5, Enjuagues5, Полоскание5, Spoelen5	Adjusting the default setting for rinsing (default = 5 rinses). Setting can be made in heavy (Program 2), White (3) colour (Program 4)
	Press  to exit the service menu.	

	Reheat Off, Reheat Off, Reheat Off, Återvärmning Av, Genopvarmning Fra, Oppvarming Av, Uudelleenlämmitys Poissa, Réchauffage Off, Erneut heizen Aus, Riscaldamento Off, Recalentamiento apagado, Нагрев Выкл, Opnieuw verwarmen Uit	Deactivate the function.
	Reheat On, Reheat On, Reheat On, Återvärmning på, Genopvarmning Til, Oppvarming På, Uudelleenlämmitys Päällä, Réchauffage On, Erneut heizen An, Riscaldamento On, Recalentamiento encendido, Нагрев Вкл., Opnieuw verwarmen Aan	Activate the function
	Press  to exit the service menu.	
  	1500 rpm 1600 rpm 1700 rpm 1800 rpm 1900 rpm 2000 rpm	Setting maximum speed. Maximum rpm is either 1800 or 2000 rpm depending on model.
	Press  to exit the service menu.	
	Reset	<p><b>Reset displayed by LCD.</b>                  For resetting the machine to the customer start menu proceed as follows.</p> <ol style="list-style-type: none"> <li>1. Enter the service menu. (Se page 13 in the service manual.)</li> <li>2. Press the program selector button repeatedly* until "RESET" is displayed on LCD 2.</li> <li>3. Push the Start/Stop button, "1 LANGUAGE" is displayed On LCD 2.</li> <li>4. Switch the power Off with the main switch.</li> </ol> <p>* (8 times for WM and 5 times for TD)</p> <p>The next time the power switches On, the machine is in the customer start menu. Pressing S2 a reset is performed and the following actions are performed:</p> <ol style="list-style-type: none"> <li>1. Language settings are accessed (LCD1 off), language confirmed by S2.</li> <li>2. Clock setting is accessed (LCD1 off), setting confirmed by S2.</li> <li>3. Set time menu is accessed (LCD1 off), time confirmed by S2.</li> <li>4. Text "Transport protection" is displayed in LCD1 (LCD2 and 3 off), by pressing any key or rotating J1 the program menu is accessed.</li> </ol> <p>Pressing S1 service menu step 1 is accessed.</p> <p>If the machine is turned off before step 4 is completed the machine shall restart at step 1. When all steps are completed the machine shall return to program selection mode.</p>
	Press  to exit the service menu.	

## Service menu WM60.2



ⓘ	Switch off, and then on main power.
<b>S6</b>	• Pressing S6 when power on followed by 3 pushes on S6 within 5 sec enters the service menu.
<b>NOTE!</b>	<b>Make all selections. Pressing S13 stores all selections made in service menu and leaves service mode.</b>
<b>Turn J1</b>	<p><b>Tracking data read out</b>            SP: (software programming date: year week            CM: (control unit manufacturing date: year week            SV1: (Software version)            SV2: (Software version)            NC: Number of cycles            Press S14 next step is accessed.</p>
	<p><b>Failure read out</b>            Rotating J1 will display 2<sup>nd</sup> and 3<sup>rd</sup> last deviating fault, ex "Thermistor fault (2); 30" , "Over flow (3); 20"            Failure record is cleared by total reset            Pressing S14 next step is accessed.</p>
	<p><b>Diagnostics</b>            Separate test of auxiliary components.            Rotating J1 each component will be turned on (with a 1 sec delay) and inputs detected in sequence:            "Testing" (no component),            "Testing valve 1" (inlet valve 1 on),            "Testing valve 2" (inlet valve 2 on),            "Testing valve SM" (inlet valve 1 and 2 on),            "Testing heater" (heater on until max 60°C),            "Testing motor" (normal action),            "Testing drain" (drain pump on),            "Testing spin" (spin sequence, drain pump on),            "Testing door".            Pressing S14 components will be off and next step is accessed.</p>
	<p><b>Rinse setting</b>            Turn J1 counter clockwise "3 rinses" default or clockwise " 5 rinses"            Pressing S14 next step is accessed.</p>
	<p><b>Temperature °C/°F</b>            Turn J1 counter clockwise "°C" default or clockwise " °F"            Pressing S14 next step is accessed.</p>
	<p><b>Spin speed</b>            Turn J1 counter clockwise 1500 rpm, 1600 rpm, 1700 rpm, 1800 rpm, default or clockwise 1800 rpm, 1700 rpm ..."            Pressing S14 next step is accessed or S13 to store or leave service mode.</p>
	<p><b>Total reset</b>            By pressing S14 when power on the software total resets (return to default values of all settings). Service menu settings and parameters only re-programmable in in-line programming excluded (shall not reset).</p>

## Shop program WM60.3

<b>1. Activating the Shop program (for machines manufactured from week 737 on)</b>	
	<p>If the machine is on: First turn off the power at the main power switch. Then press and hold the Start button while turning on the main power switch. Press the program selector 5 times. At this point no settings can be made. The centre display will activate after 3 minutes. Settings can now be made, but the machine cannot be started.</p>
<b>2. Stopping the Shop program (for machines manufactured from week 737 on)</b>	
	<p>First turn off the power at the main power switch. Then press and hold the Start button while turning on the main power switch. Press the program selector 5 times. The Shop program is now stopped.</p>
<b>1. Activating the Shop program (for machines manufactured up to week 736)</b>	
	<p>If the machine is on: First turn off the power at the main power switch. Then press and hold the Start button while turning on the main power switch. At this point no settings can be made. The centre display will activate after 3 minutes. Settings can now be made, but the machine cannot be started.</p>
<b>2. Stopping the Shop program (for machines manufactured up to week 736)</b>	
	<p>First turn off the power at the main power switch. Then press and hold the Start button while turning on the main power switch. The Shop program is now stopped.</p>



## Fault indications WM60.3

The below faults are indicated in plaintext in LCD 1. The table shows the indication in all languages and language variations.

LCD 1	Cause	Action
Over flow fault, Overflow Fault, Over flow fault, Överflyllnad, Overløbsfejl, Overflom, Ylitulviminen, Trop plein, Überfüllt, Troppo pieno, Desborde, Перелив воды, Te veel water	Too much water in the machine	<b>Service action:</b> Check the machine's level system, inlet valve and drain pump. Make sure that there is no leaks.
	The drain pump is on, without any water in the machine.	<b>Service action:</b> The overflow protection at the bottom of the machine is activated (not all models). Make sure that there is no leaks (water on the machines base)
Water outlet fault, Water Outlet Fault, Water outlet fault, Uttömningsfel, Udpumpningsfejl, Vannutløp, Vedenpoistovika, Défaut, Wasserablauffehler, Uscita acqua, Fallo, Слив воды, Waterafvoer fout	<ol style="list-style-type: none"> <li>1. The drain pump has been activated more than 3 minutes. There is still water in the machine.</li> <li>2. The wash cycle is interrupted and the program is cleared</li> </ol>	<b>Customer information:</b> <ol style="list-style-type: none"> <li>1. Check that no objects are stuck in the drainage hose outlet.</li> <li>2. Check that the drain pump is not blocked by foreign objects.</li> <li>3. Check that there are no kinks in the drainage hose.</li> </ol> <b>Service action:</b> <ol style="list-style-type: none"> <li>1. 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.</li> <li>2. Check wiring and voltage to the pump. If necessary, replace the pump and/or control</li> <li>3. After implementing corrective action, run the Drain program or press the Key button (door open) to empty the machine.</li> </ol>
Water inlet fault, Water Inlet Fault, Water inlet fault, Vattenintagsfel, Vandintagsfejl, Vanntilførsel, Vika vedenotossa, Défaut, Wasseraufn.-fehler, Entrata acqua, Fallo, Набор воды, Watertoevoer fout	If the correct water level is not reached within 5 minutes, the wash cycle is interrupted.	<b>Customer information:</b> <ol style="list-style-type: none"> <li>1. Check that the tap on the water pipe is open.</li> </ol> <b>Service action:</b> <ol style="list-style-type: none"> <li>1. Check that the filter in the machine's water intake is not blocked.</li> <li>2. Check the inlet valve. If necessary, replace the valve.</li> <li>3. Check 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.</li> </ol>
Security fault, Security Sys Fault, Security fault, Lucköppningsfel, Sikkerhedsfejl, Sikkerhetsfeil, Vika turvajärj., Erreur sécurité, Sicherh.-fehler, Err. sis.sicurezza, Fallo sistema seguridad, Ошибка сис. безоп., Deurslot fout	The door is open.	<b>Customer information:</b> Check that the door is closed properly  <b>Service action:</b> <ol style="list-style-type: none"> <li>1. Check for faults on the door lock or wiring to the door lock.</li> <li>2. Check the function of the level sensor.</li> <li>3. Check the control unit.</li> </ol>
Unbalance (language to be defined in next version)	Is indicated when wash load is not evenly applied in the cylinder.	<b>Customer information:</b> Make sure that the load is evenly applied.
Thermistor fault, Thermistor Fault, Thermistor fault, Termistorfel, Termostat fejl, Termistor, Termistorivika, Défaut, Termistorfehler, Termistore, Fallo, Термистор, Temp. sensor fout  (Note: Is only shown in the Service menu)	<ol style="list-style-type: none"> <li>1. The circuit for the thermistor is open.</li> <li>2. The thermistor is faulty</li> <li>3. The measurement value for the thermistor is &lt;math&gt;&lt;300 \Omega&lt;/math&gt; (&gt;120 °C/248°F)</li> </ol>	<b>Service action:</b> Check the thermistors function. If needed, replace it.

LCD 1	Cause	Action
Temperature fault, Temperature Fault , Temperature fault, Temperaturstoppfel, Temperatur fejl, Temperaturstopp, Ei lämmitä vettä, Défaut , Temp.-stopffehler, Errore arresto , Fallo , Температура, Temperaturstop  (Note: Is only shown in the Service menu)	The temperature is raised < 5 °C/41°F within 10 minutes. The wash cycle continues to next step.	<b>Service action:</b> Check the heater, cables, thermistor and level system.
Wash motor fault, Wash Motor Fault , Wash motor fault, Motorfel, Motor fejl, Motorfeil, Moottorivika, Défaut , Motorfehler, Motore lavaggio , Fallo , Мотор, Motorstoring	Indicated if the tachogenerator is overloaded or control signal is missing (from the tachogenerator or MCU).	<b>Service action:</b> Check signal from the MCU and cables between motor and MCU.
Pressure fault, Pres Sensor Fault, Pressure fault, Trycksensorfel, Tryksensor fejl, Nivåfeil, Painesensorivika, Défaut , Drucksensorfehler, Pressostato , Fallo , Датчик уровня, Druksensor fout  (Note: Is only shown in the Service menu)	Indicated when water level is decreasing dropp to zero within 30 sec in the first rinse	<b>Service action:</b> Check for leaks.

After carrying out corrective actions as above, reset the fault indications by pressing the DOOR OPERING BUTTON at the same time as the main power switch.

## Fault indications WM60.2

Error messages		
	Cause	Action
<b>Close the door</b>	The door was not closed.	Close the door
<b>Over flow fault</b>	<ul style="list-style-type: none"> <li>• Too much water in the machine</li> <li>• The drain pump is on, without any water in the machine.</li> </ul>	<ul style="list-style-type: none"> <li>• Check the machine's level system, inlet valve and drain pump. Make sure that there is no leaks.</li> <li>• The overflow protection at the bottom of the machine is activated (not all models). Make sure that there is no leaks (water on the machines base)</li> </ul>
<b>Outlet fault</b>	<ul style="list-style-type: none"> <li>• The drain pump has been activated more than 3 minutes. There is still water in the machine.</li> <li>• The wash cycle is interrupted and the program is cleared</li> </ul>	<p><b>Customer information:</b></p> <ol style="list-style-type: none"> <li>1. Check that no objects are stuck in the drainage hose outlet.</li> <li>2. Check that the drain pump is not blocked by foreign objects.</li> <li>3. Check that there are no kinks in the drainage hose.</li> </ol> <p><b>Service action:</b></p> <ol style="list-style-type: none"> <li>1. 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.</li> <li>2. Check wiring and voltage to the pump. If necessary, replace the pump and/or control</li> <li>3. After implementing corrective action, run the Drain program or press the Key button (door open) to empty the machine.</li> </ol>
<b>Water inlet fault</b>	<ul style="list-style-type: none"> <li>• If the correct water level is not reached within 5 minutes, the wash cycle is interrupted.</li> </ul>	<p><b>Customer information:</b></p> <ol style="list-style-type: none"> <li>1. Check that the tap on the water pipe is open.</li> </ol> <p><b>Service action:</b></p> <ol style="list-style-type: none"> <li>1. Check that the filter in the machine's water intake is not blocked.</li> <li>2. Check the inlet valve. If necessary, replace the valve.</li> <li>3. Check 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.</li> </ol>
<b>Motor fault</b>	Indicated if the tacho generator is overloaded or control signal is missing (from the tacho generator or MCU).	Check signal from the MCU and cables between motor and MCU.

## Components and measurement values

Item number	Component	Measurement value	Comments
80 658 33	CIM-motor	Resistances: Pin 1-3 stator 3.7 $\Omega$ Pin 1-2 stator 3.6 $\Omega$ Pin 2-3 rotor 3.6 $\Omega$ Pin 4-5 tachometer 178 $\Omega$	
80 617 06	Värmeelement 2000 W	28,4 $\Omega$	
80 761 02	Thermistor	6.1-3.8 k $\Omega$ (at room temperature 20 – 30°C/ 86°F)	The thermistor for temperature reading is located between the motor cradle and the container. The thermistor measures and controls the water temperature that can vary from 0 to 90°C/ 194°F. The element is disconnected if the thermistor is short-circuited or disconnected from the program control card.
88 012 63.	Drain pump 50 Hz	144 $\Omega$ .	The drain pump is combined with an integrated fine filter trap, which can be cleaned by the user. If the drain pump has run for 180 seconds during draining, the program stops, resets and a fault code is indicated in the display. The drain pumps capacity is 20 liters/min.
88 012 64.	Drain pump 60 Hz	76 $\Omega$	
80 782 21	Level Switch		Electro mechanical level switch with two levels, see wiring diagram. Indicates levels for door opening, heat and overfilling.
80 762 02	EMC filter with inductor 50/60 Hz	680 k $\Omega$	The filter eliminates interference to and from the machine.
80 793 24	Inlet valve	3,7 k $\Omega$ $\pm$ 0,5 k $\Omega$	2 way inlet valve 8 litres / minute
80 798 73	Door lock	122 $\Omega$	The door lock is electro mechanical and equipped with a magnet.
80 773 63	Control Unit WM60.3		
80 792 89	Control Unit WM60.3 FI		
80 803 87	Motor Control Unit (MCU)		
80 806 02	Control Unit WM60.2		

## Measurement values thermistor

Temp, ° C	Temp, ° F	Resistance, Ohm
0	32	15806
10	50	9634
20	68	6046
25	77	4841
30	85	3900
40	105	2579
50	120	1744
60	140	1204
70	160	848
80	175	609
85	185	519

## Technical data

Height:	850 mm
Width:	595 mm
Depth:	585 mm
Weight:	75 kg / 80 kg (with outer door)
Cylinder volume:	50 l
Max. washing capacity:	EU 7.0 kg, AU, US 6.0kg
Spin speed:	WM60.3 400-2000 rpm WM60.2 400-1800 rpm
Connection:	1 fas 10 A
Element power:	2000W, 230V (See type designation)
Water pressure:	0,1 – 1 MPa., 1 – 10 kp/cm <sup>2</sup> , 10 – 100 N/cm <sup>2</sup>
Wash drum and liquid compartment material:	Stainless steel
Outer casing material:	Powder-coated and hot-galvanized sheet steel or stainless steel
Set-up:	Stationary on four adjustable, rubber-clad feet
Water connection:	1.5 m PEX tubing, 3/4" – 3/4" or 3/4" – 1/2"
Drain:	1.7 m polypropylene tubing
Protection class::	IP X4
Water consumption:	59 l (3 rinses), <72 l (5 rinses)
Energy consumption	1,02 kWh
Energy consumption StandBy: - Main switch off - Display on - Display off	0,0 W 5,0 W 3,0 W

## Tools

<b>Torx</b> T25 T20 T10	<b>Socket screwdriver</b> 10mm	<b>5mm socket head cap screwdriver + small locking handle</b>	<b>Plastic hammer</b>
<b>Ring spanners</b> 11/16" 16mm 13mm 10mm	<b>24mm extended socket + locking handle</b>	<b>Star socket head screwdriver</b>	<b>A pair of nippers</b>

# Wiring diagram WM60.3

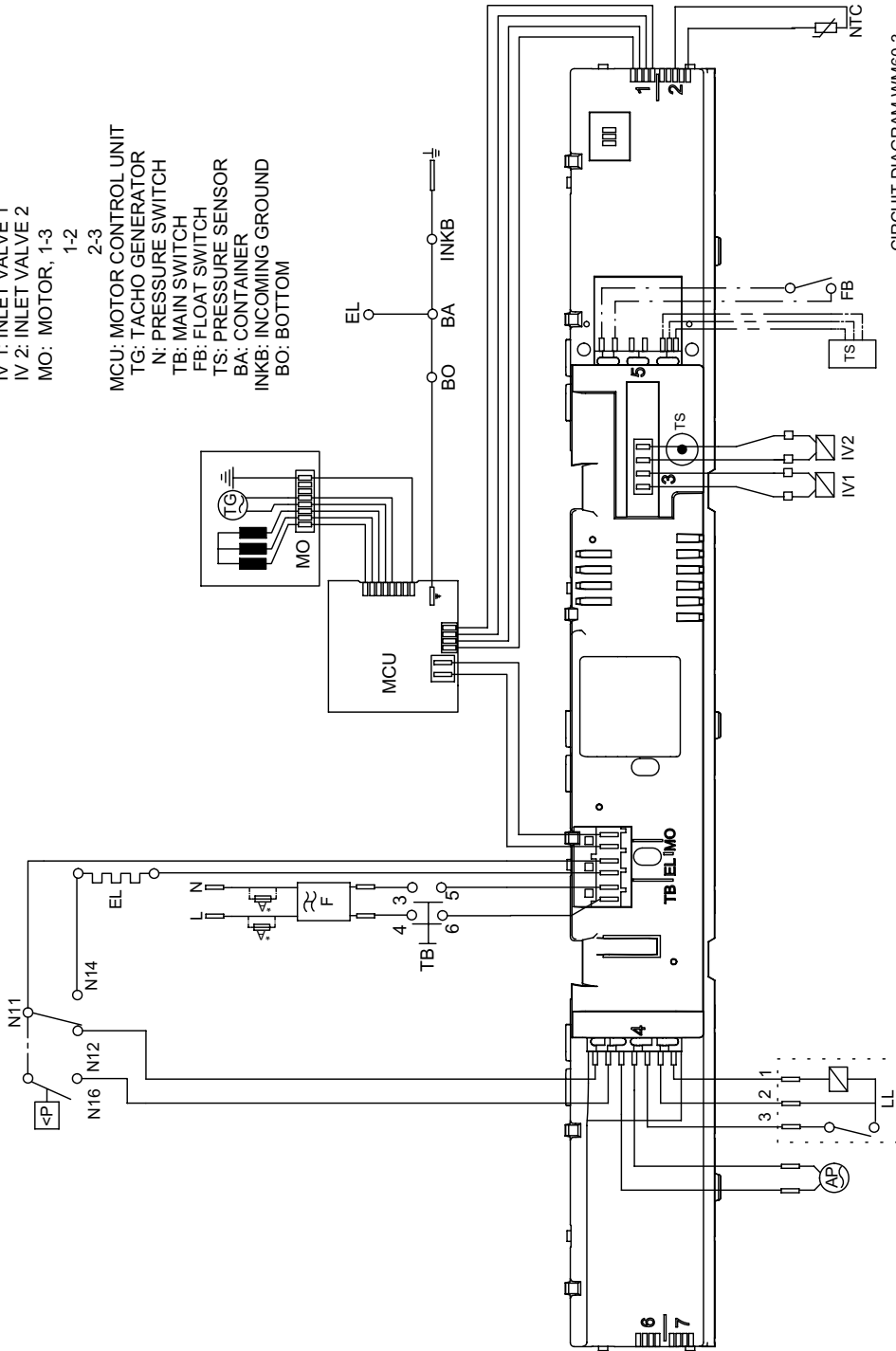
RESISTANCES AT ROOM TEMPERATURE (CA. 20°C/68°F)  
VALUES WITH +/10% ARE REGARDED AS NORMAL COMPONENT

F: RADIO INTERFERENCE SUPPRESSION FILTER 680K Ohm  
 EL: HEATING ELEMENT 25 Ohm  
 AP: DRAIN PUMP 50 Hz 144 Ohm  
 AP: DRAIN PUMP 60 Hz 76 Ohm  
 LL: DOOR LOCK 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  
 MO: MOTOR, 1-3 3.7±7% Ohm  
 1-2 3.6±7% Ohm  
 2-3 3.6±7% Ohm

WIRES IN ALL MACHINES  
 --- INTERNAL CONNECTION  
 - - - WIRES IN SOME MACHINES  
 . . . \*A FUSE CONNECTION USA & CANADA

CABLE POSITIONS  
 1: MOTOR COMMUNICATION  
 2: THERMISTOR  
 3: INLET VALVES  
 4: DOOR LOCK, DRAIN PUMP, PREASSURE SWITCH  
 TB: POWER  
 EL: HEATING ELEMENT, PREASSURE SWITCH  
 MO: MOTOR POWER

MCU: MOTOR CONTROL UNIT  
 TG: TACHO GENERATOR  
 N: PRESSURE SWITCH  
 TB: MAIN SWITCH  
 FB: FLOAT SWITCH  
 TS: PRESSURE SENSOR  
 BA: CONTAINER  
 INKB: INCOMING GROUND  
 BO: BOTTOM



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 Akzo Cylinar AB

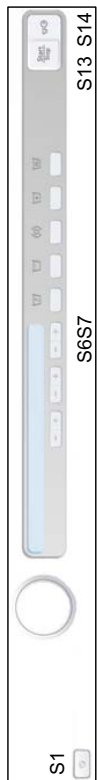
CIRCUIT DIAGRAM WM60.3  
**80 788 69 - 03**

# Wiring diagram WM60.2

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

- F: RADIO INTERFERENCE SUPPRESSION FILTER 680K Ohm
- EL: HEATING ELEMENT 25 Ohm
- AP: DRAIN PUMP 50 Hz 144 Ohm
- AP: DRAIN PUMP 60 Hz 76 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
- MO: MOTOR, 1-3 3.6±7% Ohm
- 1-2 3.6±7% Ohm
- 2-3

- MCU: MOTOR CONTROL UNIT
- N: PRESSURE SWITCH
- TS: PRESSURE SENSOR
- TG: TACHO GENERATOR
- BA: CONTAINER
- INKB: INCOMING GROUND



### SERVICE MENU

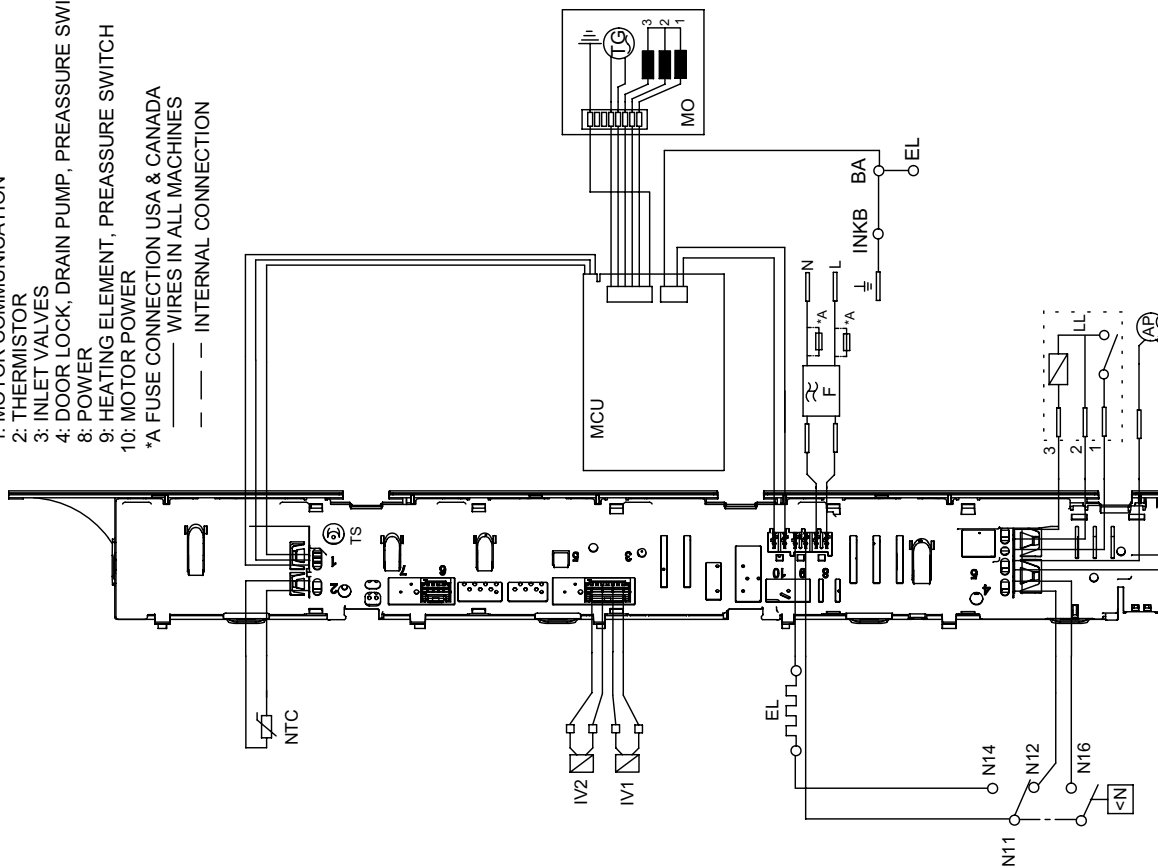
- TURN OFF POWER (S1)
- WAIT FOR AT LEAST 5 SEC
- HOLD S6 OR S7
- TURN ON POWER (S1)
- PRESS S6 OR S7 3 TIMES TO ENTER SERVICE MENU
- PRESS DOOR OPENING (S14) TO CHANGE MENU STEP
- ROTATE DIAL TO CHANGE IN STEP
- PRESSING START/STOP (S13) STORES AND EXITS SERVICE MENU

- STEP 1: PRODUCT DATA
- STEP 2: FAILURE DATA
- STEP 3: COMPONENT TEST

### TOTAL RESET

- TURN OFF POWER (S1)
- WAIT FOR AT LEAST 5 SEC
- HOLD DOOR OPENING (S14)
- TURN ON POWER (S1)

- CABLE POSITIONS**
- 1: MOTOR COMMUNICATION
  - 2: THERMISTOR
  - 3: INLET VALVES
  - 4: DOOR LOCK, DRAIN PUMP, PREASSURE SWITCH
  - 8: POWER
  - 9: HEATING ELEMENT, PREASSURE SWITCH
  - 10: MOTOR POWER
- \*A FUSE CONNECTION USA & CANADA  
 ——— WIRES IN ALL MACHINES  
 - - - - INTERNAL CONNECTION






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Askö Cylindrar

CIRCUIT DIAGRAM WM60.2


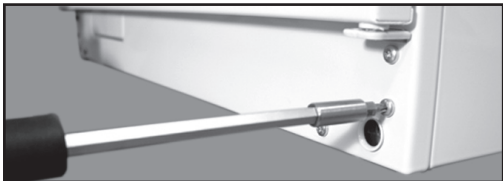

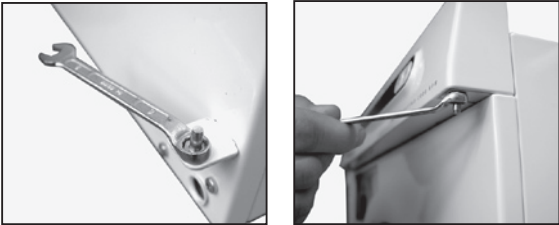
80 807 15 - 02

## Rehanging the door



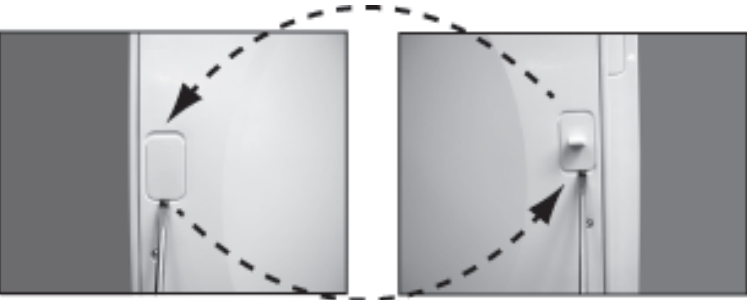
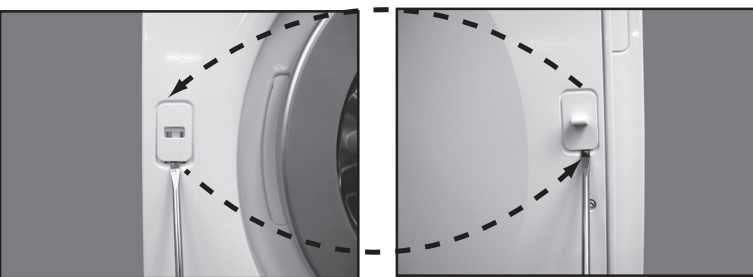
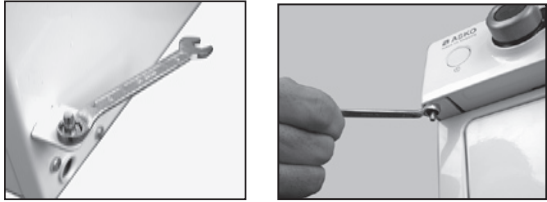

Some machines in the WM60-series is supplied with a door - is that the case the door is hung on the left-hand side. It is, however, possible to re-hang it according to the instructions below. Take care not to damage the paint when carrying out work with tools.


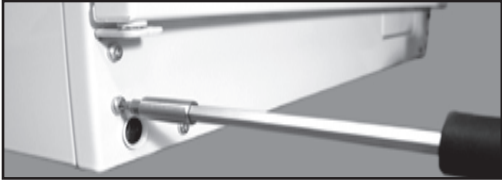

Required tools	
Flathead screwdriver	
Torx size 20	
Fixed spanner size 8	



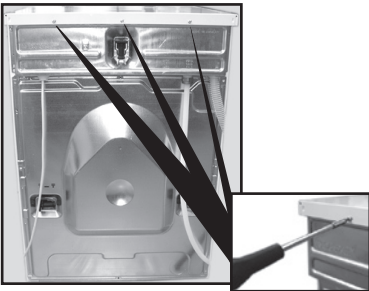
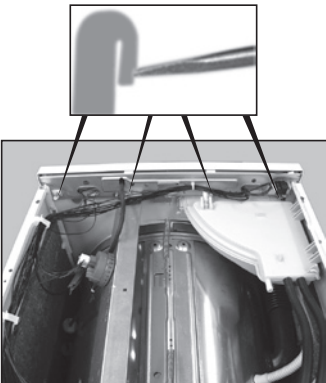
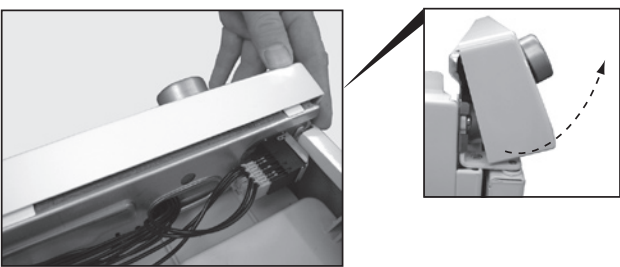
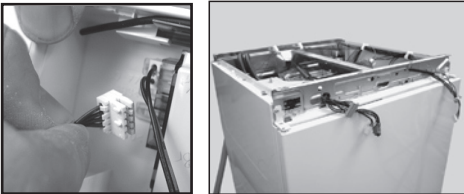
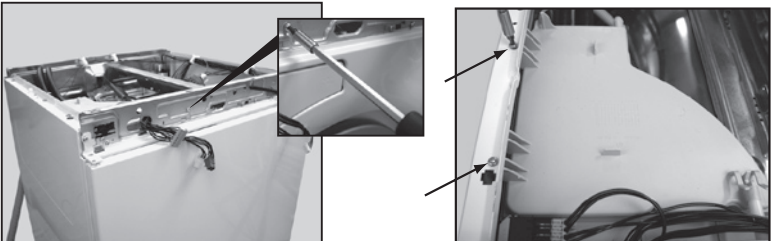
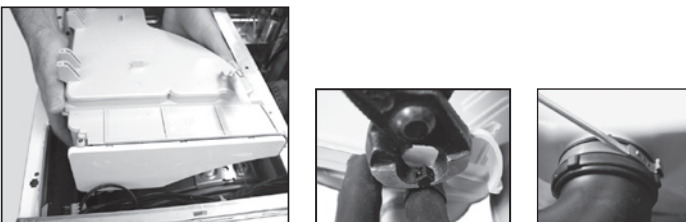
Instructions	Image
1. Remove the plinth by carefully pulling it out.	
2. Remove both screws for the lower hinge. Use Torx.	
3. Push the door upwards with care and angle outwards. If necessary, carefully press the lower hinge to detach the door.	
4. Slacken off the lower and upper hinge pins using a fixed spanner.	

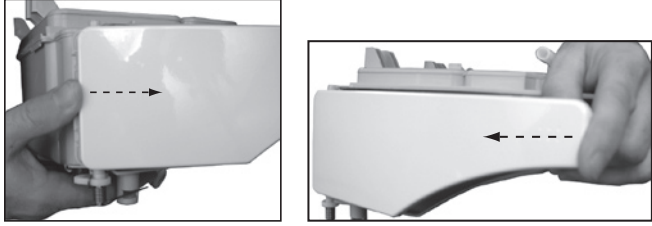
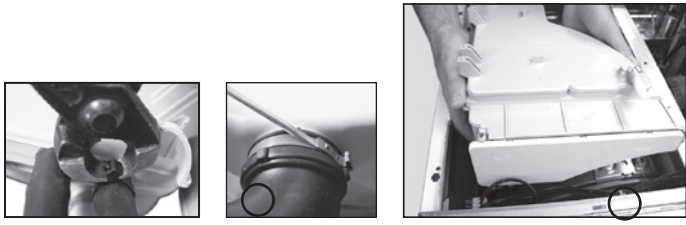
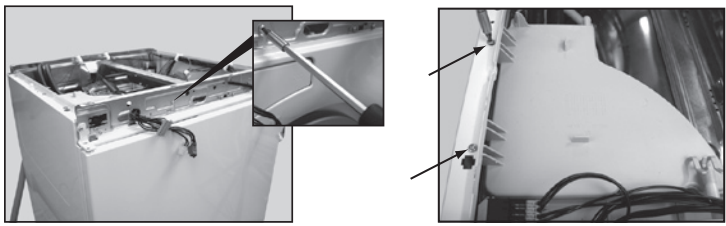

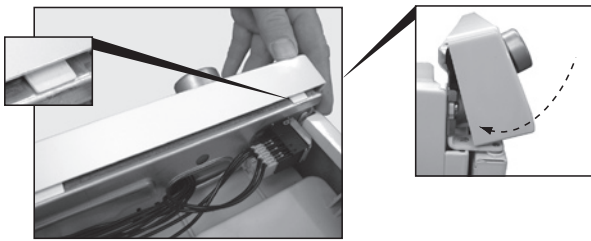
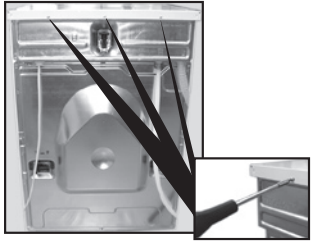


<p>5. Remove the plastic plugs covering the holes for the hinge pins and switch location</p>	
<p><b>Method for removing plastic plugs, lock and catch located on the machine and the door:</b> Carefully push the plug, catch or lock upwards with a flat screwdriver, as the picture shows.</p>	
<p>6. Carefully remove the catch and plastic plug on the door (according to the method above) and switch location.</p>	
<p>7. Carefully remove the lock and plastic plug on the machine (according to the method above) and switch location.</p>	
<p>8. Screw the hinge pins securely into place on the corresponding side of the machine.</p>	
<p>9. Slacken off the screws for the lower hinge on the corresponding side of the machine. This must be done to hang the door.</p>	

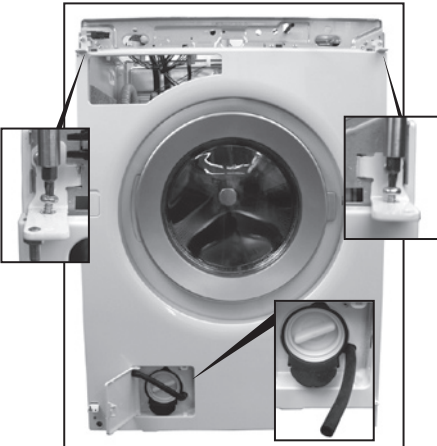
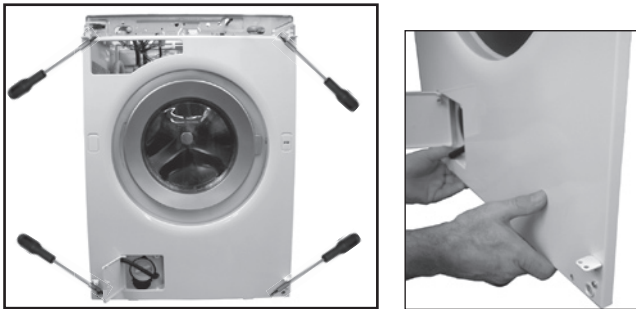
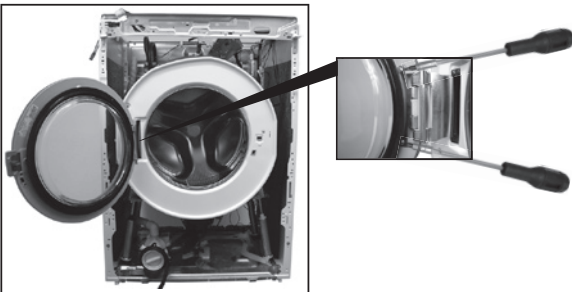
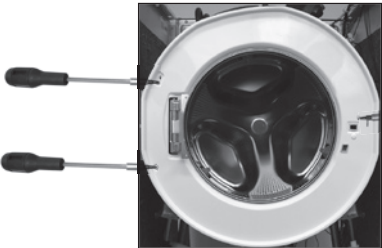
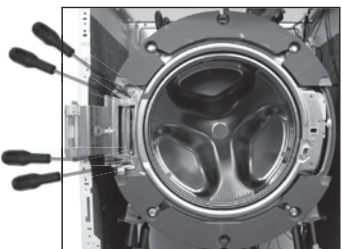
<p>10. Align the door in the upper hinge. Carefully push the lower hinge down if necessary and align the door.</p>	
<p>11. Screw the lower hinge into place securely. Use Torx.</p>	
<p>12 Press the plinth into place. The door has now been re-hung.</p>	

## Replacing panels and detergent compartment

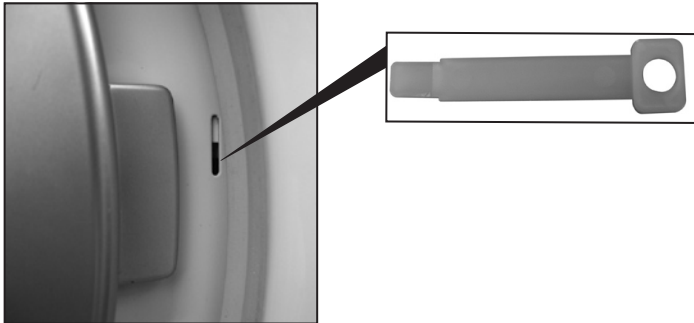

Instructions	Image
<p>1. Unscrew the top cover.</p>	
<p>2. Carefully press the catches that secure the panel at the front beam. Release the catches from the front member by working the panel outwards.</p>	
<p>3. Detach the panel by angling and pulling it carefully outwards at the lower edge.</p> <p>Note: Do not damage the wiring!</p>	
<p>4. Carefully disconnect the wiring from the control unit.</p>	
<p>5. When removing the detergent compartment, first slacken off the screw on the front member and then the two screws holding the detergent compartment in the side panel.</p>	
<p>6. Lift the detergent compartment. Then remove the hose clamps for all hoses, which are secured in the detergent container. Then detach the hoses from the detergent compartment.</p>	

Instructions	Image
<p>7. If necessary: Replace the decor panel for the detergent compartment. Detach the decor panel by pressing according to image 1. Install the decor panel by first placing the decor panel in the grooves on the detergent container and then snapping it into place as illustrated in image 2.</p>	
<p>8. Install the detergent compartment by first pressing all hoses into place and then securing them using the hose clamps.</p>	
<p>9. Screw the detergent compartment into place using the three screws (one in the front panel and two in the frame)</p>	
<p>10. Install all wiring in the relevant locations on the control card.</p>	
<p>11. Install the panel. Angle the panel outwards and place the mounting plates in the relevant grooves in the front frame. Angle the panel downwards and secure it with the catches</p>	
<p>12. Screw the top cover into place.</p>	

## Replacing front panel, door, cover plate and the hinges

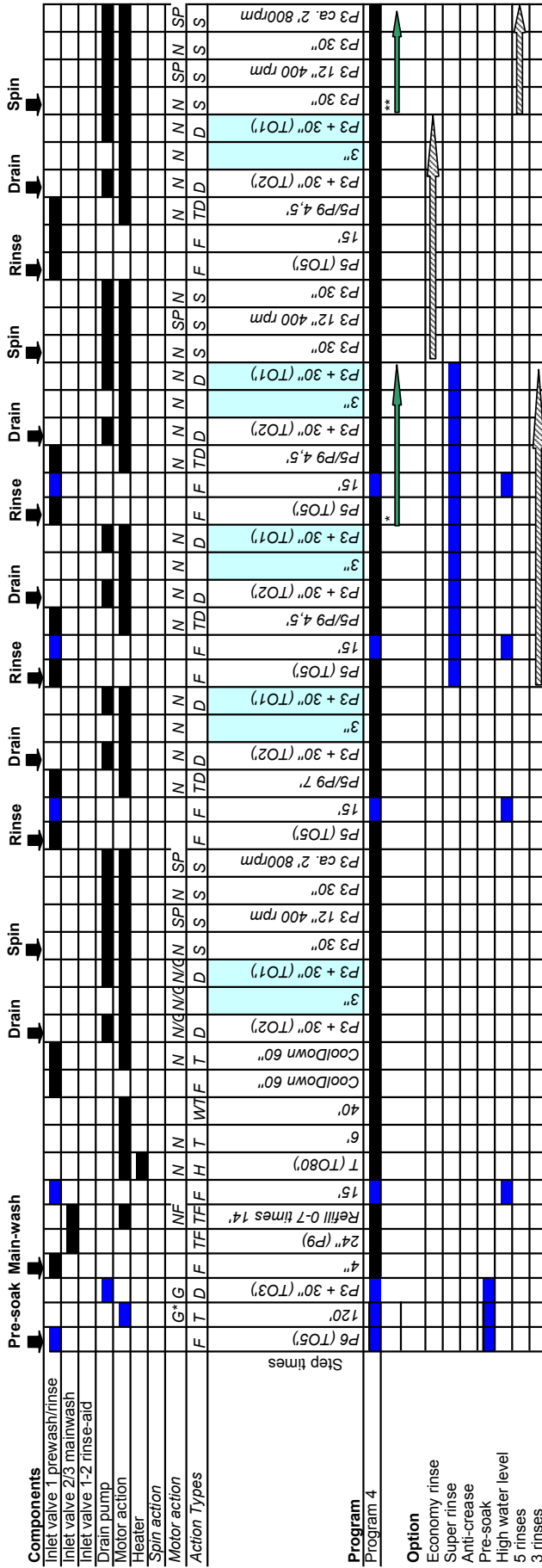
Instructions	Image
<p>1. Unscrew the screws in the hooks holding the front panel. Then carefully pull off the drainage hose that is secured in the door for the drainage pump.</p> <p><b>Note!</b> Water is poring out when the drainage hose is pulled off.</p>	
<p>2. Unscrew the screws holding the front panel. Then remove the front panel by carefully pulling it out at the lower edge.</p>	
<p>3. Unscrew the two screws holding the glass door. Use Torx.</p>	
<p>4. Unscrew the three screws that hold the cover plate to the container. Use Torx.</p>	
<p>5. Unscrew the four screws securing the hinge to the container. Use Torx. After removing the four screws, remove the cover plate and hinge.</p>	

## How to use the emergency opener for door lock

Instructions	Image
1. The emergency opener is in the documentation kit.	
3. Push the emergency opener into the slot beside the glass door.	 A diagram showing a close-up of the door frame with a small slot. An arrow points from a separate image of the emergency opener (a grey plastic tool with a circular hole at the end) to the slot, indicating where it should be inserted.
4. Push the emergency opener upwards, and the door will open.	 A photograph showing a hand pushing the emergency opener upwards into the slot on the door frame. The door is slightly ajar, and the opener is being used to lift the locking mechanism.

### Timer diagram Program 4

(Continue on next page)



Continue on next page

\* When 5 rinses and super-rinse, this step is executed  
 \*\* If super-rinse this step is executed

