a ASKO

Service manual

Type: WM33A WM44A

Product:	Front-loading washing machine	Overview of new/modified types of	Group:	21	
Date:	11.1.2002	washing machines introduced to the			
Reference:	N-Å Carlsson	market in 2001		Page:	1(7)

ASKO Cylinda's range of washing machines was modified during the autumn of 2001. A brief overview of the modifications which were carried out follows below.

Further information is given in the product data given below.

New type	Replaces old type	Main differences	Product info
WM33A	WM33	Programmer no longer fitted, replaced by rotary s	witch
		and electronic control card. E2 no longer fitted,	
		new programs.	Α
		New panel graphic.	
WM44A	WM44	Programmer no longer fitted, replaced by rotary	Α
		switch and electronic control card.	
		E2 no longer fitted, new programs.	
		New panel graphic.	
WM50	NEW	Electronic control with knob and 7-segment	В
		LED display. 11 programs.	
WM55A	WM55	New control card. New menu logic.	С
		New programs. Among other things, 1-24 hour do	elayed start.
		New panel graphic. Shop program indicated on the	e display.
WM56	NEW	Electronic control with buttons and display.	D
		8 programs. Shop program indicated on display.	
WM66A	WM66	See WM55A.	С

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Service manual

Type: WM33A WM44A

Produkt:	Front-loading washing machine	Modified washing machine	Group:	21
Date:	11.1.2002	WM33A/WM44A	Α	
Reference:	N-Å Carlsson			Page: 2(7)

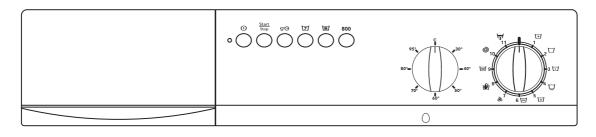
Contents

- Example of panels
- General
- Handling
- Options

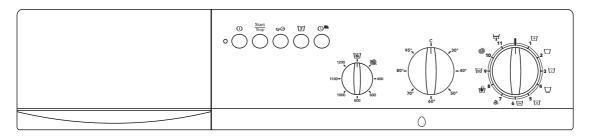
- Programs
- Consumption values
- Loops on control card
- Wiring diagram, Art.no. 8064368

This service information is intended as a supplement to the W600-series service manual.

Example of WM33A Panel



Example of WM44A Panel



General

Mechanically the machine is based on WM33/44 (W600/W620), except for the panel and control unit. For more information, see the service manual for the W600 series.

The machine is available with various options for pushbuttons, which may vary from market to market. See also loops on the control card.

Handling

- 1. Sort the washing.
- 2. Turn on the main switch, (\odot), open the washer door, ($\overline{\Box}$) and load the textiles.
- 3. Putting in the detergent and conditioner.
- 4. Select program with the program selector knob.
- 5. Set the desired temperature with the temperature knob and press the appropriate option buttons.

6. Close the door and start the program by pressing the $\left(\frac{1}{3 \log 2}\right)$ -button. It will take a few seconds before you hear the machine starting.

To interrupt the programme, press the ()-button for three seconds. If any water remains in the machine, run either the Drain or the Spin program. Any water will then be pumped out.

7.The programme is complete when the door can be opened with the (r_{0}) button.

8. When washing is finished, turn off the main power switch, (•), and close the washer door.

Options (all options is not available on all machines):

800 Spin 800 revolutions/minute.

The normal spin speed is 1000, 1100 or 1200 revolutions/minute (long spin).

By pressing the **800** button, you can select a lower spin speed of 800 revolutions/minute (short spin).

No spin/ no drain

By pressing the w button, the programme will be executed without a spin and will be completed without draining.

7 Super rinse

Super rinse adds extra rinses to the washing programs, see the table at page 4.

 \bigcirc ^{5h} Delayed start By pressing the \bigcirc ^{5h} button, the machine will start 5 hours after you start the washing program.

Available programs, 5 rinses

Prog	gramme information						Program	ne d	content				Other
Programme M.	Programme		Max, dussin	Temperature °C (A)	Max. spin speed rev/min	Pre-Wash	Main wash	Spin	Rinse (B)	Spin	Rinse (B)	Spin	
1	Heavy wash		\bullet	C,30-95	1100			٥		٥		Ò	
2	Normal wash			C,30-95	1100			٥	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	٥	₩₩	٥	
3	Light wash			C,30-95	1100			٥	₩₩₩	٥	₩₩	0	Shorter main wash than for Normal wash.
4	Synthetic wash		•	C,30-95	800				``````````````````````````````````````			٥	
5	Quick wash			C,30-95	1100				~~~~			0	
6	Super quick wash		•	C,30-95	1100				₩₩			0	
7	Wool wash (C)		0	C,30-40	800				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			٥	
8	Hand wash (C)		0	C,30-40	800				₩₩₩			٥	Slightly more gentle than Wool wash.
9	Rinse programme				1100				~~			0	
10	Spin				1100							0	
11	Drain		\bullet	Pumping	only						•	-	
Θ	1/1 (6,0 kg) 1/2 (3,0 kg) 1/3 (2,0 kg)	Wash			Con WN	х. 80 ig sp Л33:	00 rev/mii	n	the in B) Wi For pr includ	com th tl rogr led	hing wate he Super ammes 1 before th	er. Rins -3, tv e fina	wM3344-5 enotes the temperature of e On option: wo extra rinses will be al ordinary rinse. h water level.

Available programs, 3 rinses

Pro	gramme information						Program	me c	onter	nt					Other
Programma v.	Programme		Max, dusan	Temperature °C (A)	Max. spin speed	Pre-Wach	Main wash	Spin	Rinse (R)	Spin	Rinse (B)	Spin	Rinse (R)	Spin	
1	Heavy wash			C,30-95	1100			٥	1	0	~~~	0	~~~	0	
2	Normal wash			C,30-95	1100			٥	1	0	~~~	0	<u>,</u>	0	
3	Light wash			C,30-95	1100			٥	1	Ò	1	0	5	0	Shorter main wash than for Normal wash.
4	Synthetic wash		•	C,30-95	800				₩		1		W	٥	
5	Quick wash			C,30-95	1100				1		1		~~	0	
6	Super quick wash		•	C,30-95	1100				1		1			0	
7	Wool wash (C)		0	C,30-40	800				5		W		~~	٥	
8	Hand wash (C)		0	C,30-40	800				W		~~~		1	٥	Slightly more gentle than Wool wash.
9	Rinse programme				1100				~~~					0	
10	Spin				1100									0	
11	Drain			Pumping	only										
Θ	1/1 (6,0 kg) 1/2 (3,0 kg) 1/3 (2,0 kg)	Wash) Lon	x. 80 Ig sp	00 rev/mi	,		the (B) Fo	e inco Wit r pro	omin h the grar	ig wa e Sup nmes	ater. ber Rin 1-3,	wMM3344-3 enotes the temperature of nse On option: four extra rinses will be p will be omitted

WM33: Short spin (always 800 r/min)

For programmes 4-8: two extra rinses will be included before the final ordinary rinse. (C) Delicate wash - high water level.

Consumption values

WM 33A/44A

The following conditions apply for the consumption values indicated below: Temperature of incoming water: 15°C. Element power: 2000 W. Options: None

PROGRAM	Material/Washing Temperature(1)	LOAD (2)	WATER CONSUMP- TION (approx. litre)	POWER CONSUMP- TION (approx. kWh)	PROGRAM TIME (approx. minutes)
Heavy wash	Cotton, linen, 60°C	5,0 kg	5 rinses ⁶²	1,20	140
			3 rinses 52	1,20	135
Normal wash	Cotton, linen, 60°C	5,0 kg	59	0,95	125
			49	0,95	120
Light wash	Cotton, linen, 60°C	5,0 kg	59	0,90	85
			49	0,90	80
Synthetic wash	Polyester, cotton / polyester, nylon, 40 C	3,0 kg	28	0,35	65
Quick wash	Cotton, linen, 60°C	5,0 kg	35	0,90	58
Super quick wash	Polyester, cotton / polyester, nylon, 40 C	3,0 kg	22	0,30	35
Wool wash	Wool/Hand wash, IWS, Superwash, 30°C	2,0 kg	54	0,30	40
Hand wash	Wool/Hand wash, IWS Superwash, 30°C	2,0 kg	54	0,30	40
Rinse programme	Cotton, linen	5,0 kg	7-12	0,05	15
Spin	Cotton, linen	5,0 kg		0,05	10
Drain	Cotton, linen	5,0 kg			1

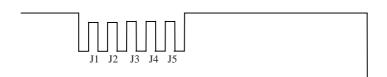
(1) All programmes are set to the highest available spin speed.

(2) The machine can handle a maximum load of 6.0 kg.

Loops on control card for WM33A/WM44A

Control unit Art.no. 8064361

Loops and their function.



Loops	J1	J2	J3	J4	J5
3 Rinses	0	-	-	-	-
5 Rinses	X	-	-	-	-
WM 33A 1000 rpm	-	Χ	0	Х	-
WM 33A 1100 rpm	-	0	0	Х	-
WM 33A 1200 rpm	-	X	Х	Х	
WM 44A 1200 rpm	-	0	0	0	-

0 = Not broken

X = Broken

WASHING MACHINE MOTOR WM 33A/44A (FHP)

Art.no.	80 637 32	(50 Hz)
Resistances: Pins 2-3	Stator	1,41W
Pins 1-3	Stator	$0,57\Omega$
Pins 4-5	Rotor	1,54 Ω*
Pins 6-7	Tacho	135, Ω
*) 1 540 mag	aurod diagon	ally agrees collecto

*) 1,54 Ω measured diagonally across collector. All resistance values are ±8%.

WASHING MACHINE MOTOR WM 33A/44A (FHP)

Art.no.	80 637 33	(60 Hz)					
Resistances:							
Pins 2-3	Stator	1,05 Ω					
Pins 1-3	Stator	0,58 Ω					
Pins 4-5	Rotor	1,75 Ω*					
Pins 6-7	Tacho	135 Ω					
*) 1,75 Ω measured diagonally across collector.							
All resistance values are $\pm 8\%$.							

ELEMENT

2000 W

 Art.no.
 80 617 06

 Resistance:
 28,4 Ω

1000 W

Art.no. $80\ 616\ 63$ Resistance: $65-35\ k\Omega$ Room temperature 20-30 °C

The thermistor for temperature measurement is installed between the motor cradle and the tank.

The thermistor measures and controls the water temperature, which may vary from 0-90 °C. The element is sisconnected if the thermistor is short- circuited or disconnected from the program control card or programmer.

DRAIN PUMP

50 Hz

60 Hz

Art no. 80 619 37 N.B. Ordered under art.no. 88 011 67. Resistance: 76 Ω Current: 0,3 A, 28 W loaded The drain pump is combined with an integrated needle trap, which can be cleaned by the user. If the drain pump has run for 180 seconds durin

If the drain pump has run for 180 seconds during draining, the program i stopped, reset and an error code appears on the display.

LEVEL SWITCH

Art.no. 80 642 75

An electromechanical level switch with two levels, see wiring diagram. Controls the water level and starts the drain pump if Over flow is indicated.

LEVEL SENSOR

Art.no. 80 616 64 ASKO Level sensor type 1166. Voltage: 0,5 V output from the sensor at pressure 0 and 0-level is reached during pumping out. Measurement by control unit.

The level sensor is mounted on the bridge for electrical components and connected to the PCU, see electrical diagram.

RADIO SUPPRESSION FILTER

Art.no. 80 585 58 Leakage current 230 V/ 50/60 Hz 0,3-0,4 mA

The filter eliminates radio interferences in the machine.

INLET VALVES

3-way inlet valve

 Art.no.
 80 617 57

 Resistance:
 $3,7 k\Omega \pm 0,5 k\Omega$

 Current:
 0,02 A, 5 W

Inlet valve for hot water (option)

Art.no.	80 61 / 29
Resistance:	$3,7 \text{ k}\Omega \pm 0,5 \text{ k}\Omega$
Current:	0,02 A, 5 W

INDICATING LAMP (WM33A/44A)

Art.no.	80 604 78 USA	
Current:	230 V, 60 Hz	1,7 mA

Art.no.	80 070 73 EU	
Current:	230 V, 50 Hz	1,7 mA

DOOR LOCK

ROTARY SELECTOR SWITCH WM33A/44A

Art.no. Art.no.		(Programs) (Temp Speed)
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FUSE

Art.no.	80 554 21	6,3 A (EU)
	80 581 40	15 A (US)