



Technical manual for washing machine

Model code: WMF1020

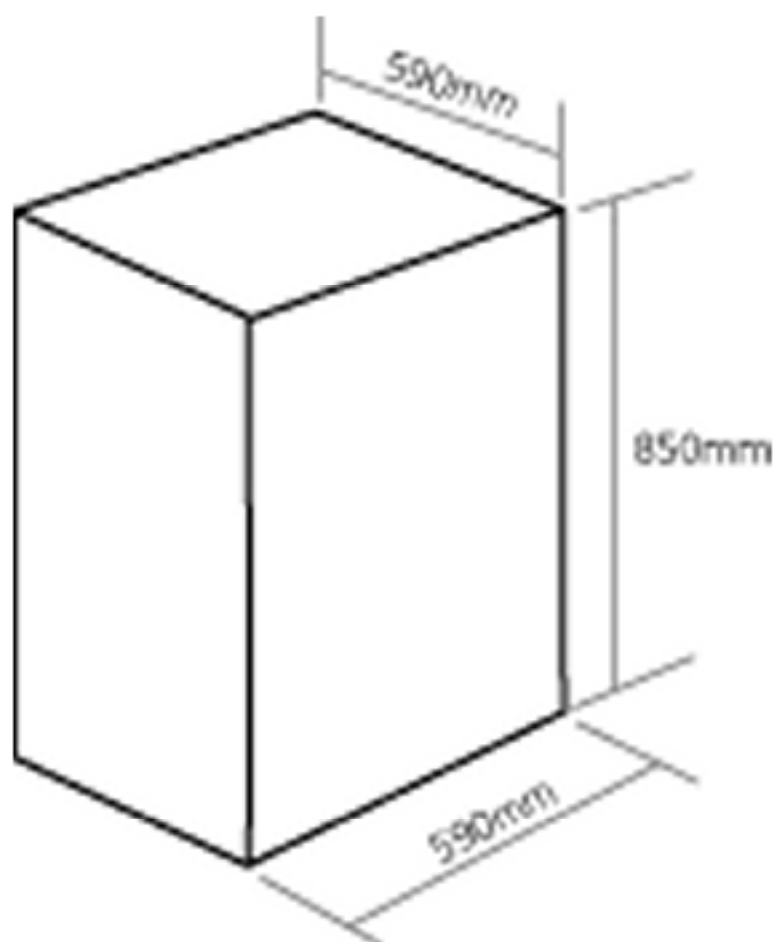


Contact Caple on 0844 8003830 or for spare parts www.4caple.co.uk



WMF1020

Caple 60cm Washing Machine
(Free Standing)





New product information sheet

Product name: WMF1020

Description: Freestanding washing machine

Product code: WMF1020

Features

Energy class A+

Wash class A

Spin efficiency B

16 programmes:

- *Cotton 30c*
- *Cotton 40c*
- *Cotton 60c + pre-wash*
- *Cotton 60c*
- *Cotton 90c*
- *Delicates cold*
- *Delicates 30c*
- *Hand Wash*
- *Wool 30c*
- *Synthetic 30c*
- *Synthetic 40c*
- *Synthetic 60c*
- *Duvet 30c*
- *Express 15 minutes*
- *Spin*
- *Daily 45minutes*

Options:

- *Rinse hold – anti crease*
- *Extra rinse*
- *Easy iron*
- *Intensive wash*
- *Anti-bacteria*

1400rpm max. spin speed

8kg washing capacity

59 Litre water consumption





New product information sheet

Product name: WMF1020

Description: Freestanding washing machine

Product code: WMF1020

LCD display which features

- *Electronic clock - delay timer 1 – 24 hours*
- *Wash progress*
- *Total time remaining*
- *Programme and spin speed indicator*

Features

Cold fill

Advance balance system – which electronically controls and distributes clothes evenly during the spin cycle.

Child lock

Variable load

340mm extra large door

180 degree opening, for easy access.

Stainless steel drum

Self cleaning pump and filter

Anti-flood safety device

Spin system with wash optimization with minimum water and energy consumption.

Foam control

Electrical connection

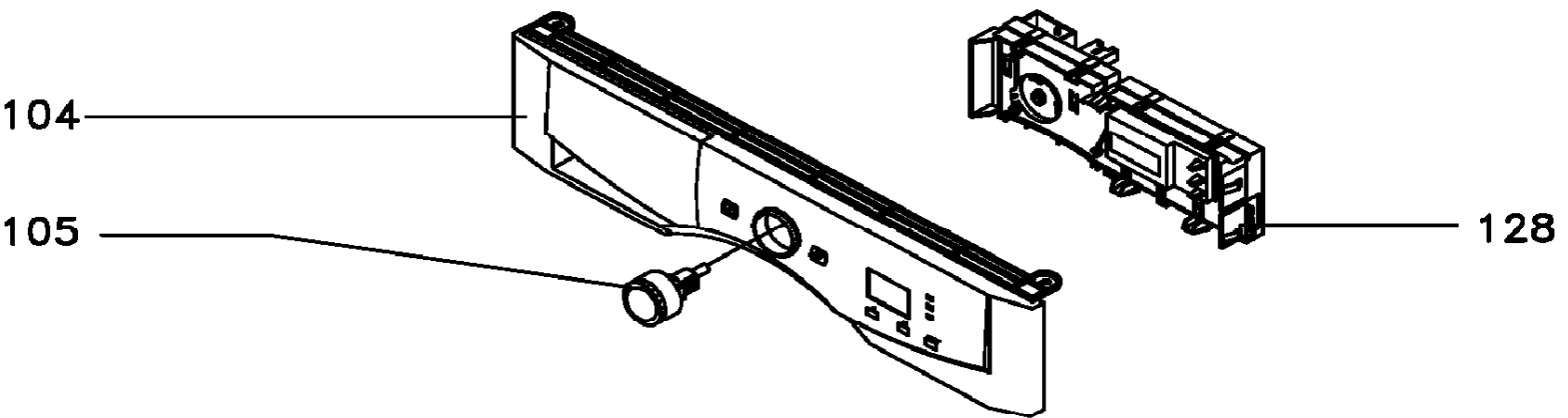
Rated load 2.2kw **ok**

Fuse rating 13A **ok**



WMF1020

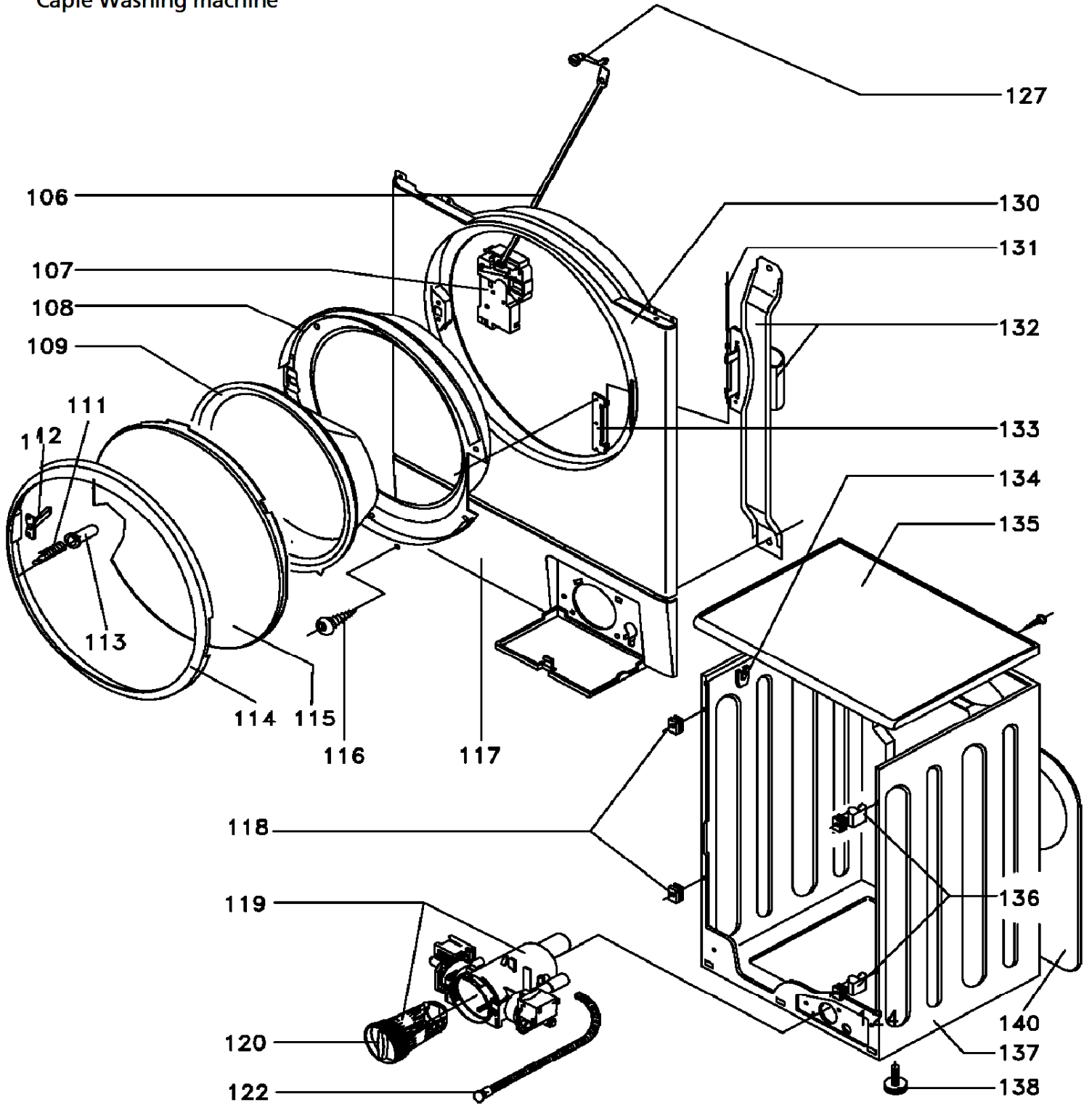
Caple Washing machine





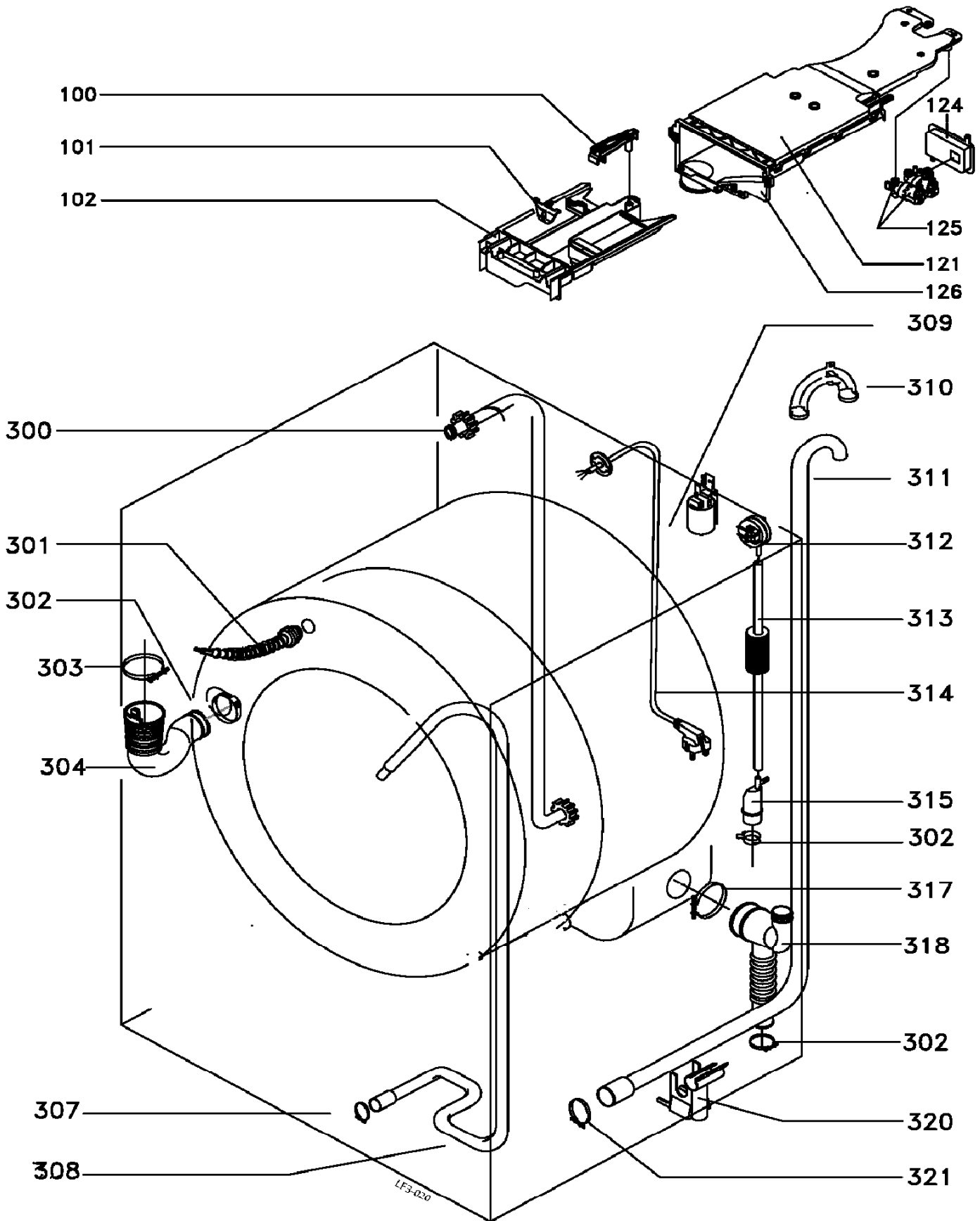
WMF1020

Caple Washing machine



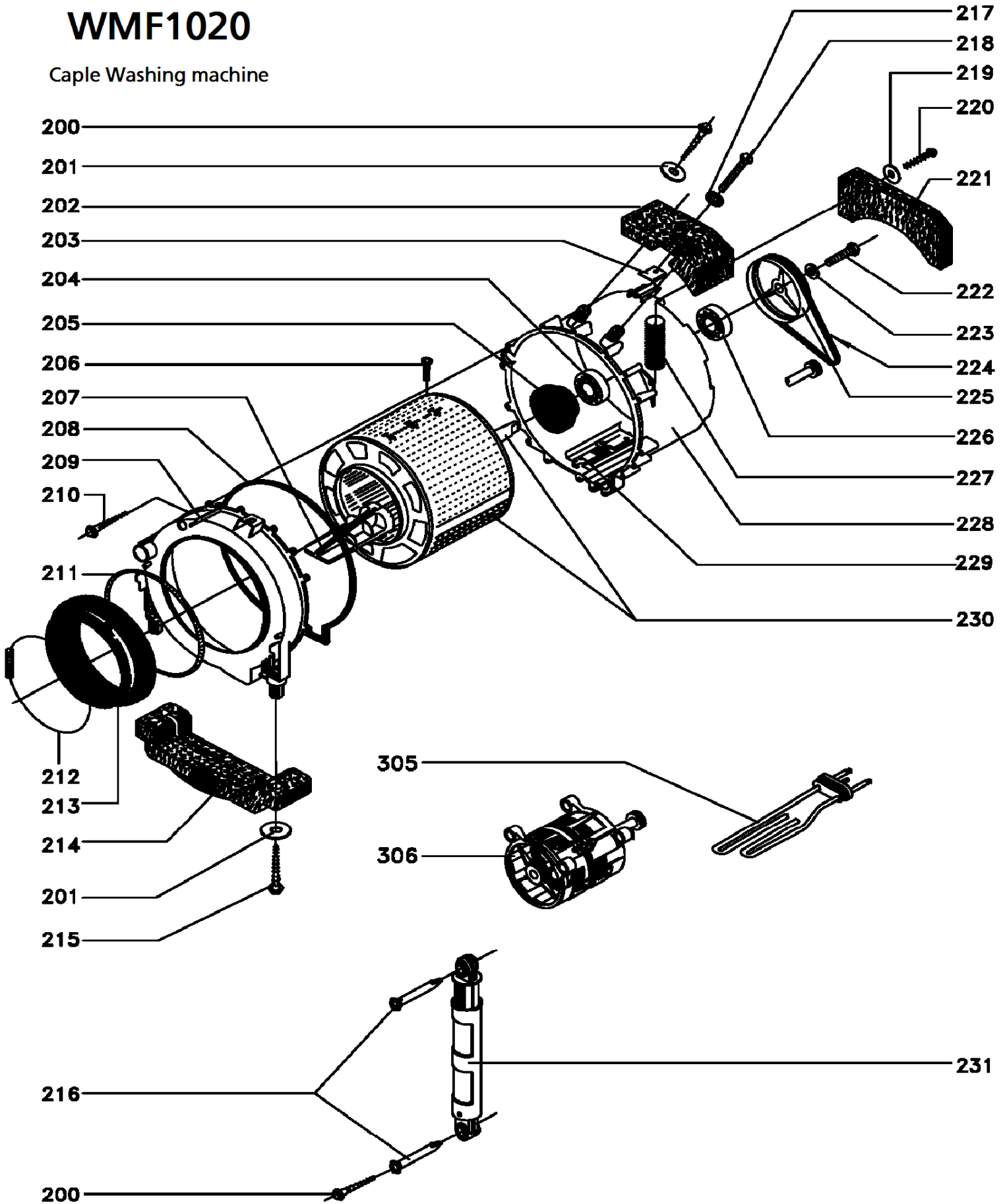
WMF1020

Caple Washing machine



WMF1020

Caple Washing machine





WMF1020 - Caple Washing machine

Item	Part Code	Description
0	52X4110	PLAN----LH7H004B5
0	71X2968	SEAL, TABLE-
100	52X4012	SIPHON-
101	52X4013	COVER----L64A013A9
102	52X4014	COMPARTMENT----L63A011A5
104	AS0006778	STRIP -
105	AS0004347	PROG. CONTROL KNOB -
106	96X1737	CABLE DOOR-
107	96X1659	-
108	52X5230	DOOR SUPPORT-
109	52X4025	WINDOW-
111	52X5231	SPRING-
112	52X5232	SAFETY PIN-
113	52X5233	KNOB -
114	52X5721	WINDOW SURROUND-
115	52X5235	TRIM FRONT-
116	52X4028	SCREW-
117	96X2541	HINGE-
118	96X3056	DOG-
119	52X4031	MOTOR, PUMP-
120	52X4032	FILTER-
121	52X4015	COVER----L60A011A1
122	96X1996	WATER PIPE----LB3E001B7
124	96X3017	HOLDER-
125	52X4017	SOLENOID VALVE-
126	52X4018	BODY----L01A011A4
127	52X5238	DOOR BUTTON-
128	52X6579	ELECTRONIC CARD-
130	96X2503	PANEL, CLADDING-
131	96X3163	SCREW-
132	96X1839	HINGE-
133	96X3015	HOLDER-
134	55X9895	END--L28A000A7
135	52X5188	TOP-
136	96X3057	DOG-
137	52X5239	CLADDING-
138	52X0077	ADJUSTABLE LEG -
140	52X4044	COVER----LK2G000A9
142	96X2166	RECYCLING TRAY----L48A032A1



WMF1020 - Caple Washing machine

Item	Part Code	Description
200	96X3166	SCREW-
201	96X2925	WASHER-
202	96X2007	TERMINAL BLOCK----L32B005A0
203	55X9939	ATTACHMENT PLATE--L85A001B1
204	96X2934	BEARING-
205	96X2385	RACK SUPPORT----L57A004A8
206	96X3170	SCREW-
207	96X1632	OMEGA BRACKET-
208	96X2375	SEAL-
209	52X5194	TUB FRONT PLASTIC-
210	96X3164	SCREW-
211	96X1908	SKIRT, ATTACHING----LF8A002A8
212	96X1909	SKIRT, ATTACHING-
213	52X5203	SEAL, WINDOW-
214	52X4781	COUNTERWEIGHT BOTTOM/LOWER-
215	96X3167	SCREW-
216	96X1679	SCREW----LQ3A000A7
217	96X2927	WASHER-
218	96X3162	SCREW-
219	96X2926	WASHER-
220	96X3165	SCREW-
221	52X5204	COUNTERWEIGHT -
222	96X3169	SCREW-
223	52X0864	WASHER--45L
224	96X2024	BELT-
225	96X2810	PULLEY-
226	96X2933	WHEEL-
227	96X2915	SPRING-
228	96X2086	TUB --LA0938500
229	96X3016	HOLDER-
230	96X3052	DRUM
231	96X1628	SHOCK ABSORBER-
300	55X9904	SUPPLY PIPE--V77A000L1
301	96X1999	PIPE----LB5A000C7
302	55X9981	PIPE LOCKING ASSEMBL--LV0767100
303	55X9907	SKIRT, ATTACHING--LH3D001A0
304	96X1983	PIPE-
305	96X2906	RESISTOR-
306	52X3601	MOTOR
307	96X1912	-SKIRT, ATTACHING-
308	96X1982	PIPE-
309	52X3571	FILTER NOISE-
310	32X2912	BEND-
311	96X1995	DISPOSAL PIPE----LB3A002B2



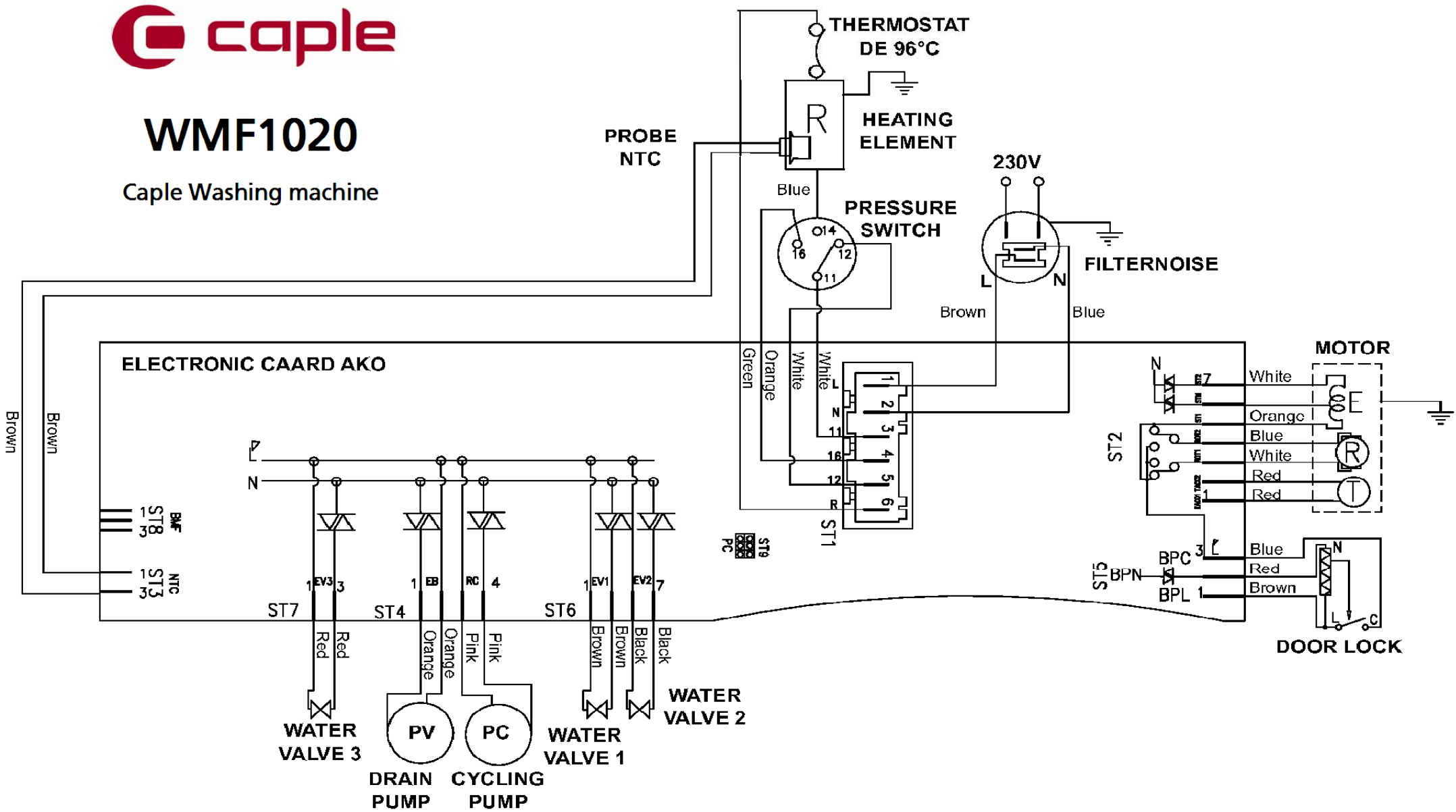
WMF1020 - Caple Washing machine

Item	Part Code	Description
312	52X5193	PRESSURE SWITCH --L37A034I9
313	52X5241	PRESSURE SWITCH PIP-
314	52X1971	CORD, MAINS--L50A020F2
315	96X2417	HOLDER----LM3A008A7
317	96X1911	SKIRT, ATTACHING-
318	96X1980	PIPE-
320	96X2329	GUIDE-
321	96X1910	SKIRT, ATTACHING-
322	52X4108	INSTALLATION----LH6J200A6



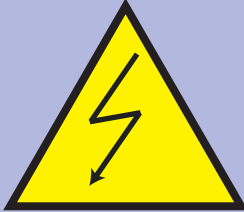
WMF1020

Caple Washing machine




This document is intended for all persons rendering technical support services (T.S.S.). It is designed to facilitate the repair of the product described. It provides documentary support for technical consultations.


This manual contains notes warning about safety issues:



Electrical hazard: This identifies potential risks for the product. Such risks may cause permanent damage to the product.



Warning: This identifies information or circumstances that may cause personal injuries or death.



Important: This identifies information that is critical for a correct understanding of the product.

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1.- Warnings and precautions



The washing machine must be connected to an earth. If this basic safety rule is not respected, the manufacturer shall under no circumstances accept liability for injuries suffered by persons or for damage to objects.

To prevent fire and electrical sparking hazards, personal injury, or other damage when using your washer, take the following precautions:

This washing machine is supplied with a manual which includes operating, maintenance, and installation instructions. Read all the instructions before using the washing machine.

Do not wash articles which have been previously cleaned, washed, soaked or treated with gasoline, dry-cleaning solvents or other inflammable or explosive substances as they produce vapours that may ignite or explode.

Do not add gasoline, dry-cleaning solvents or other inflammable or explosive substances to the wash water since they produce vapours which may ignite or explode.

Do not repair or replace any part of the washer, nor attempt any type of service unless it has been recommended in the maintenance instructions in the manual.

Do not stand or sit on the machine, or support yourself on the open loading door.

To reduce the risk of fire or electric shock, do NOT use an extension lead or adapter to connect the washing machine to the mains electricity.

The machine must only be used for what it was designed for.

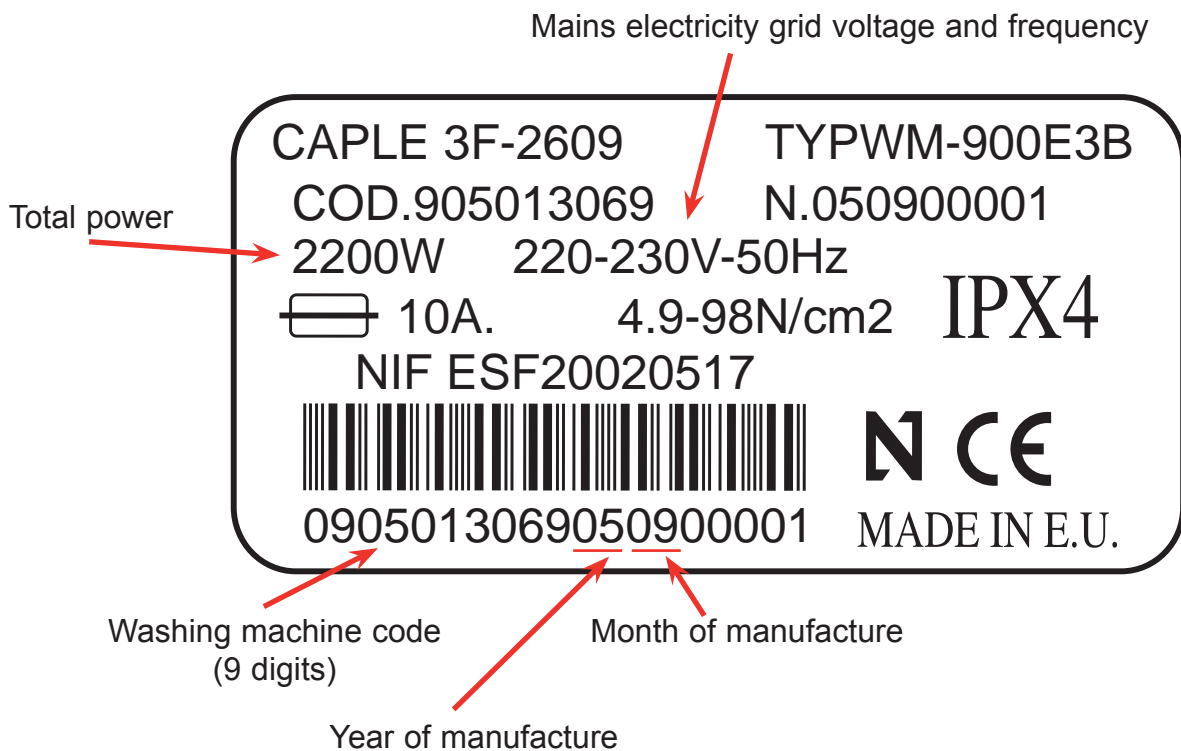
Follow the washing instructions recommended by the manufacturer of the item to be washed.

Do not start the washing machine until you have made sure that:

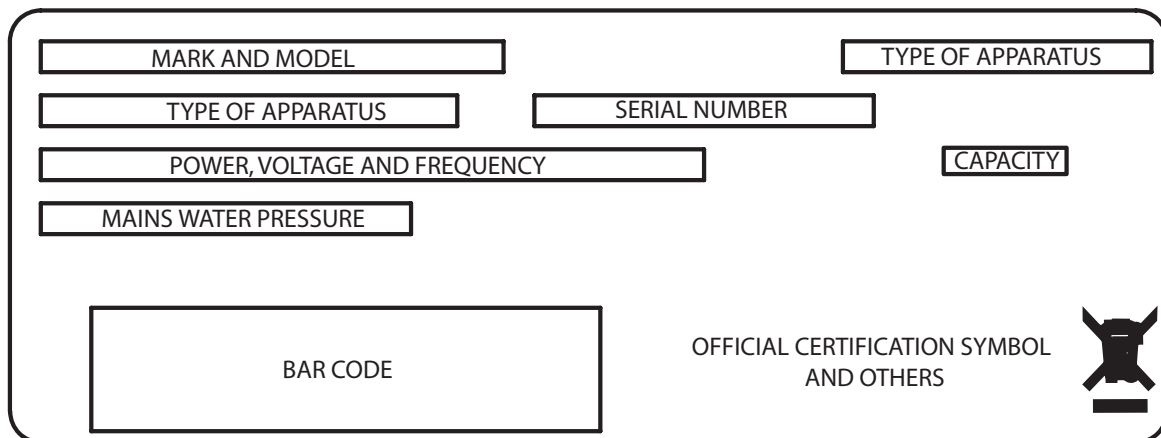
- It has been installed according to the installation instructions.
- All the water, drainage, mains and earth connections comply with local standards and other applicable standards.

Specifications plate (Registration plate)

This is situated on the hatch on the front of the washing machine. This plate indicates the following:

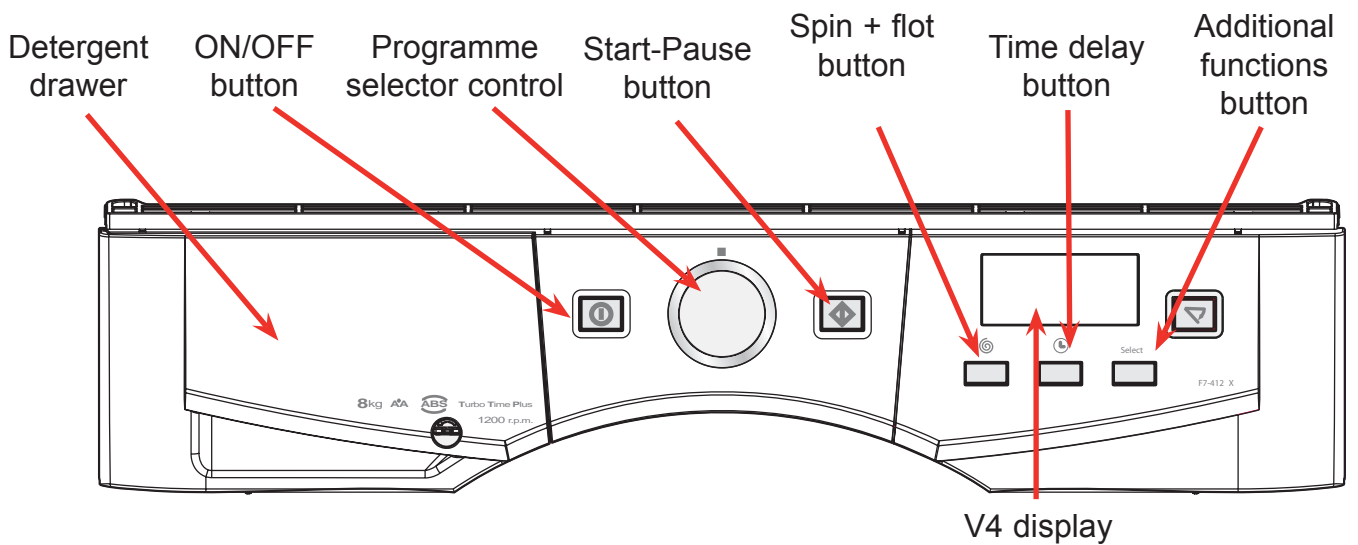
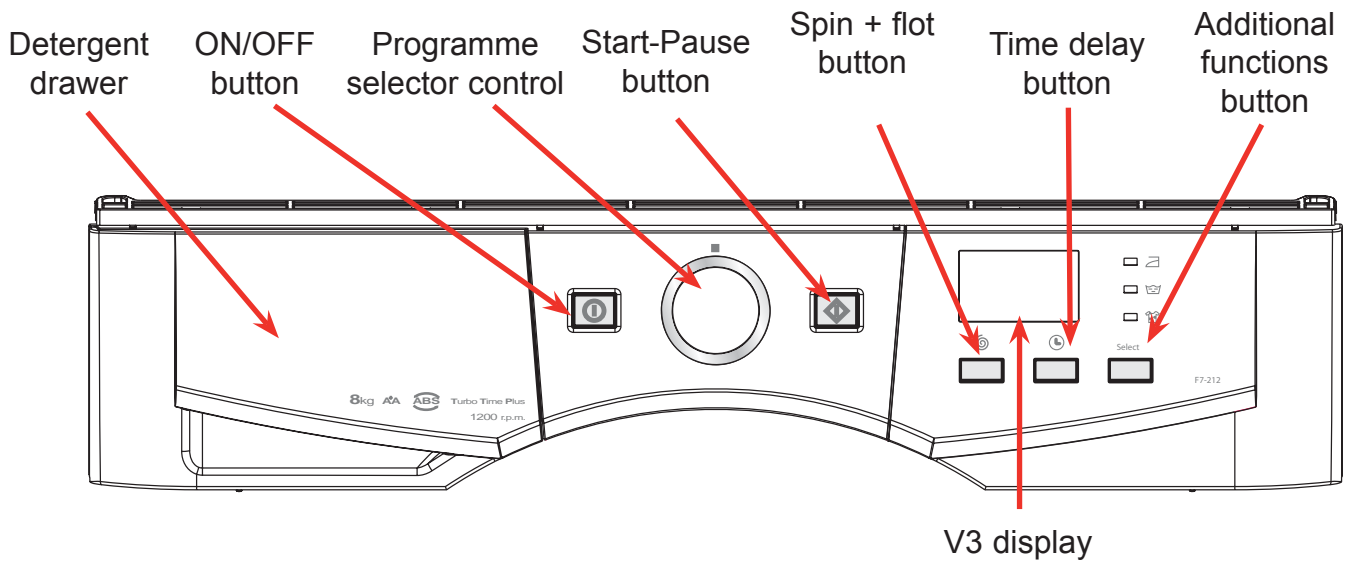


REGISTRATION PLATE



2.- Features

This range is comprised of the following models:



Selecting additional functions

Button for selecting additional functions according to programmes.

a) It has 3 options: easy iron, intensive wash, extra rinse. Press the select button to display to required option.

b) By clicking several times you can choose between various combinations, of one, two, and even three additional functions at the same time, depending on the chosen programme.

Key: Easy iron 

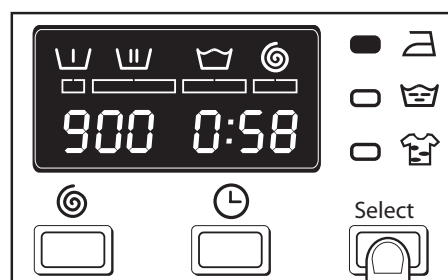
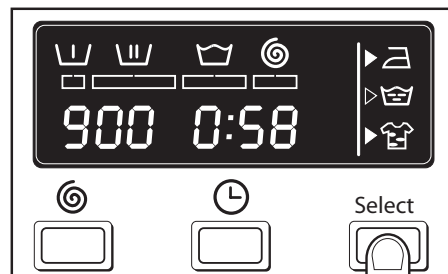
This option reduces the formation of creases in garments by performing a special programme with special movements to fluff up the garments after the spin and make ironing easier.

Key: Extra rinse 

This increases the intensity of the final rinse applied to the clothing. This is recommended for large loads and garments belonging to users with sensitive skin. Increases water consumption!

Key: Intensive Wash 

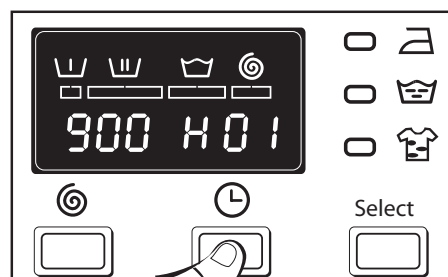
This option, specially recommended for very dirty or stained garments, gives better results by lengthening the wash cycle.



Time delay option

Time delay selection key A delay of up to **24 hours** may be selected. The delay must be selected after choosing the wash programme.

To select the time delay in hours, press the clock button. Each press delays the start time by one hour.



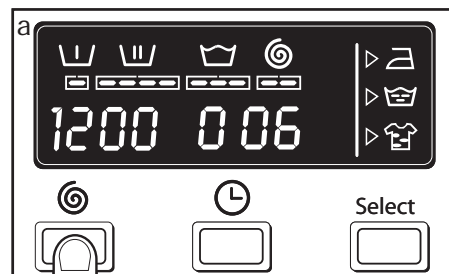
Cancelling time delay To cancel the time delay, press the clock button repeatedly. The delay will be cancelled by reaching 24 hours and then pressing once more. Changing to another programme also cancels the delay.

Spin selection

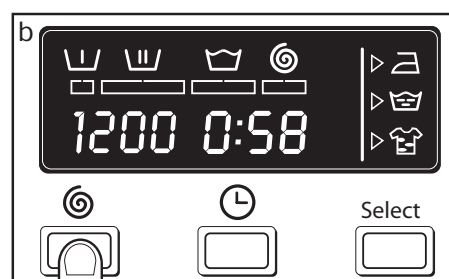
The wash options must always be selected after selecting the wash programme. Any change of programme during the selection annuls the options which had previously been selected.

a) Spin selection and anti-crease (flot) button

The selected programme has an associated spin speed in revolutions per minute, as shown on the screen.

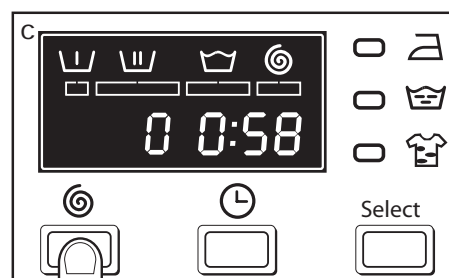


b) This can be modified by pressing the spin button repeatedly and the spin speed in revolutions will go down by 100 each time, until 400.



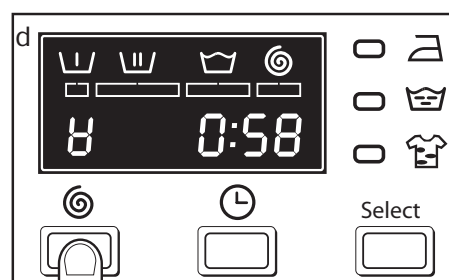
c) Skip spin option 0

Press the spin button once more to reach the skip spin option. A programme without a final spin is used to prevent creases from forming when washing special fabrics.



d) Flot/anti-crease option 8

This stops at the final rinse, leaving the clothing floating in water. When the function is deactivated, the washing machine continues the programme, draining and spinning. This is used when you are not at home, for example, to delay the spin until you have arrived so that creases are not caused by the clothes being spun and then left in the drum.

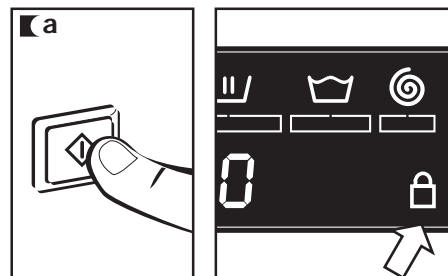


Lock selection

Activate lock

a) Locking is activated by keeping the start/pause key pressed for at least 3 seconds.

The screen will show that it has been activated.

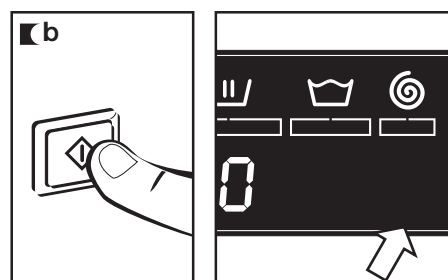


Deactivate lock

b) The lock is deactivated when the wash programme ends.

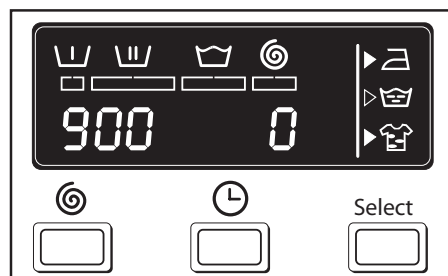
To unlock before the end of the programme, press the start key again for at least 3 seconds. After 3 seconds the lock indicator on the screen will disappear and the machine will be paused.

The ON/OFF button does not deactivate the lock.

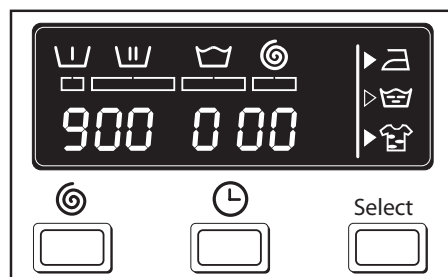


Programme ending

When the programme ends the screen will display 0.



When the door is opened or the lock is deactivated the screen will display 000.



Demo Programme

Press the spin and select buttons simultaneously for at least 3 seconds to activate and deactivate the DEMO programme.

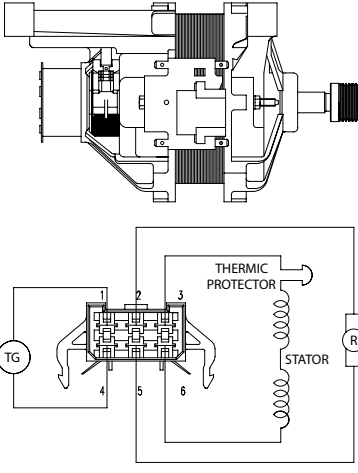
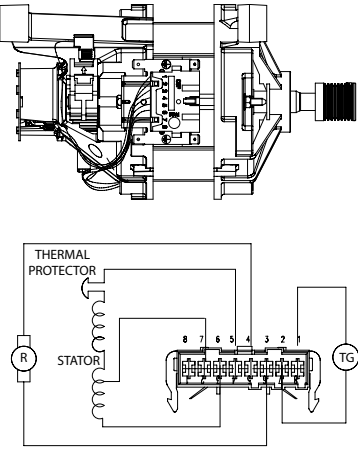
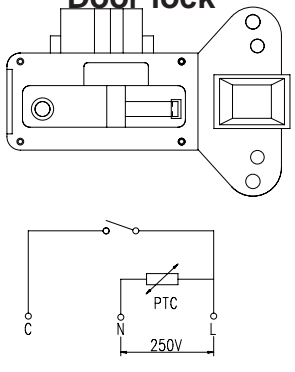
Programme tables

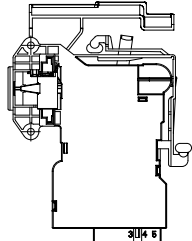
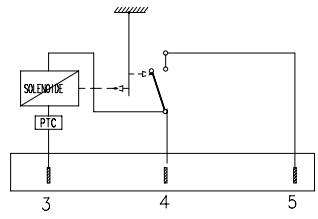
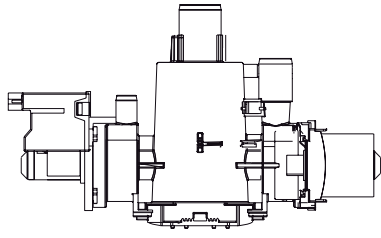
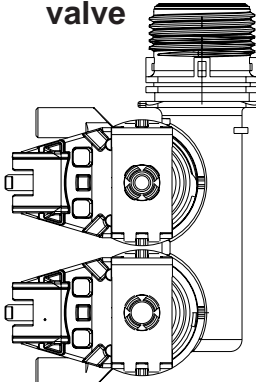
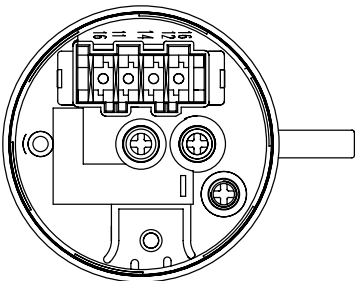
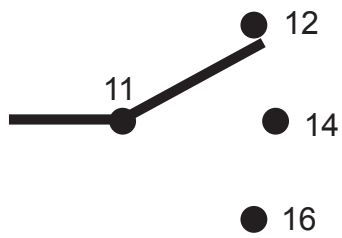
Programme	Recommended temperature	Type of material	Buttons for possible options							Max. load (kg)	Wash products compartment	Programme Description	TURBO TIME PLUS	
			Extra Rinse	Intensive Wash	Easy Iron	Select Spin	Skip Spin	Anti-Crease	Total consumption kWh/litres				Approx. duration (min.)	
1 Normal cold	cold	Cotton/Linen delicate colours very slightly soiled			YES				8		Normal wash, rinses, automatic additive absorption if required, and long final spin	0.10/59	50	
2 Fast 30°C		Cotton/Linen white/coloured very slightly soiled	YES	NO		YES		2		SHORT wash, rinses, automatic additive absorption if required, and long final spin	0.25/30	30		
3 Normal 30°C		Cotton/Linen delicate colours slightly soiled			YES			8			0.30/59	52		
4 Normal 40°C		Cotton/Linen Solid colours Slightly soiled			YES			8			0.60/59	57		
5 (*) Normal 60°C		Cotton/Linen Solid colours Normal soiling			YES			8		Normal wash, rinses, automatic additive absorption if required, and long final spin	1.52/59	80		
6 Normal 90°C		Cotton/Linen White Very dirty			YES			8			2.20/64	110		
7 Pre-wash 60°C		Cotton/Linen White/solid colours Very dirty			YES			8		Pre-wash, normal wash, rinses, automatic additive absorption if required, and long final spin	1.50/64	100		
8 Delicate cold	cold	Synthetic/mix Cotton delicate colours Very slightly soiled			YES			3.5			0.10/45	50		
9 Delicate 30°C		Synthetic/mix Cotton delicate colours Slightly soiled			YES			3.5			0.20/45	50		
10 Delicate 40°C		Synthetic/mix Cotton delicate colours Normal soiling			YES			3.5		Delicate wash, rinses, automatic additive absorption if required, and gentle final spin	0.40/45	55		
11 Delicate 60°C		Synthetic/mix Cotton white/solid colours Normal soiling			YES			3.5			1.00/45	70		
12 Cold wool	WOOL Cold	Wool/mix wool very light soiling	YES	NO		YES		2		WOOL wash, rinses, automatic additive absorption if required, and gentle final spin	0.05/55	30		
13 Wool 35°C	WOOL 35	Wool/mix wool white/colour light soiling	YES	NO		YES		2			0.45/55	40		
14 Rinses	—	Cotton/mix cotton Synthetic/Delicate Wool/wool mix	YES	NO		YES		8		Rinses, automatic additive absorption if required, and long final spin	0.05/25	23		
15 Spin	—	Cotton/mix cotton Synthetic/Delicate Wool/wool mix	NO			YES	NO	8	—	Emptying and long final spin	0.05/0	10		
16 Drainage/End	—	Cotton/mix cotton Synthetic/Delicate Wool/wool mix					NO	8	—	Emptying and end of programme. Takes the programme to the final position	0.00/0	2		

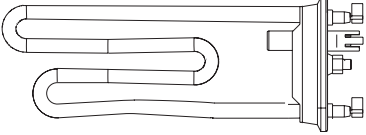
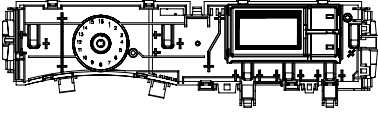
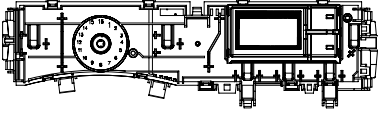
3.- Description of operation

3.1.- General description

3.1.1.- Component characteristics





Component	Function	Features
<p style="text-align: center;">Motor 1250 RPM</p> 	<p>Used in machines with variable spin; makes rotating movements when washing and spinning.</p> <p>Motor power supply:</p> <ul style="list-style-type: none"> - Clockwise, power 220V. , contacts 2 and 3. Bridge between contacts 5 and 6. - Anti-clockwise, power 220V. , contacts 3 and 5. Bridge between contacts 2 and 6. 	<p>Voltage: 220 v / 50 Hz Stator resistance: 1.3 Ω Rotor resistance: 1.7 Ω Tachogenerator resistance: 184 Ω Tachogenerator voltage: 1.2 v / 1,000 rpm</p>
<p style="text-align: center;">Double field motor 1400 RPM</p> 	<p>Used in machines with variable spin; makes rotating movements when washing and spinning.</p> <p>Motor power supply:</p> <ul style="list-style-type: none"> - Clockwise, power 220V. , contacts 4 and 5. Bridge between contacts 3 and 6. - Anti-clockwise, power 220V. , contacts 4 and 6. Bridge between contacts 5 and 3. 	<p>Voltage: 220 v / 50 Hz Stator resistance: 3.3 Ω Rotor resistance: 2.46 Ω Tachogenerator resistance: 90 Ω</p>
<p style="text-align: center;">Door lock</p> 	<p>Opens and closes hatch lock.</p>	<p>Voltage: 220 v / 50 Hz 16 Amp. Between 40 and 75 seconds delay.</p>

Component	Function	Features
<p>Door lock with instant opening</p> 	<p>Hatch closing Manual opening for use in case of electricity supply failure.</p>	
<p>Recirculation pump</p> 	<p>Re-circulates the drum water for greater wash effectiveness and reduced programme times.</p>	<p>Voltage: 220-240 V /50 Hz Drainage pump resistance 170 Ω Recirculation pump resistance 180 Ω Both with thermal protector. Power 30 (W)</p>
<p>Doubly connected electrically operated valve</p> 	<p>Allows water intake in the pre-wash, wash and rinse phases. EV1 pre-wash orange connector EV2 wash black connector EV1 + EV2 additive intake</p>	<p>Voltage: 220-240 V /50 Hz Power: 5 W Flow: 6.7 litres/ minute Pressure: 0.5-10 kg / cm² Resistance: R1=R2=R3= 3.7 KΩ 3/4 Thread Gas 12mm conduit diameter</p>
<p>Pressure switch</p> 	<p>The pressure gauge is activated in the following conditions: - When the wash level reaches 12 litres. (11-12) - When the level exceeds 33 litres (overflow), the drainage pump is activated (safety). (11-16) - The rinse level is performed according to the time of the microprocessor of the electronic card.</p>	<p>Level 1 102 / 72 ± 3</p> <p>Overflow safety device 310 ± 10</p>  <p>11 Common 12 Water intake 14 Heating 16 Overflow</p>
	<p>9</p>	

Componente	Function	Features
<p data-bbox="360 315 651 349">Heating resistance</p> 	<p data-bbox="722 315 1040 539">Heating element + thermal fuse incorporated into the element itself Thermal fuse cut-out temperature 165°</p>	<p data-bbox="1078 315 1430 577">Resistance: 26.4 Ω Material: Austenitic stainless steel Power: 2022 W Voltage: 230 v NTC ≤ 30°C variable resistance value 9786 Ω</p>
<p data-bbox="352 591 659 624">V3 electronic circuit</p> 	<p data-bbox="722 591 991 658">Power and display circuit</p>	<p data-bbox="1078 591 1481 815">Voltage: 220 v / 50 Hz Important: It is necessary to configure the circuit before starting the machine. (Follow configuration instructions)</p>
<p data-bbox="352 866 659 900">V4 electronic circuit</p> 	<p data-bbox="722 866 991 934">Power and display circuit</p>	<p data-bbox="1078 866 1481 1090">Voltage: 220 v / 50 Hz Important: It is necessary to configure the circuit before starting the machine. (follow configuration instructions)</p>

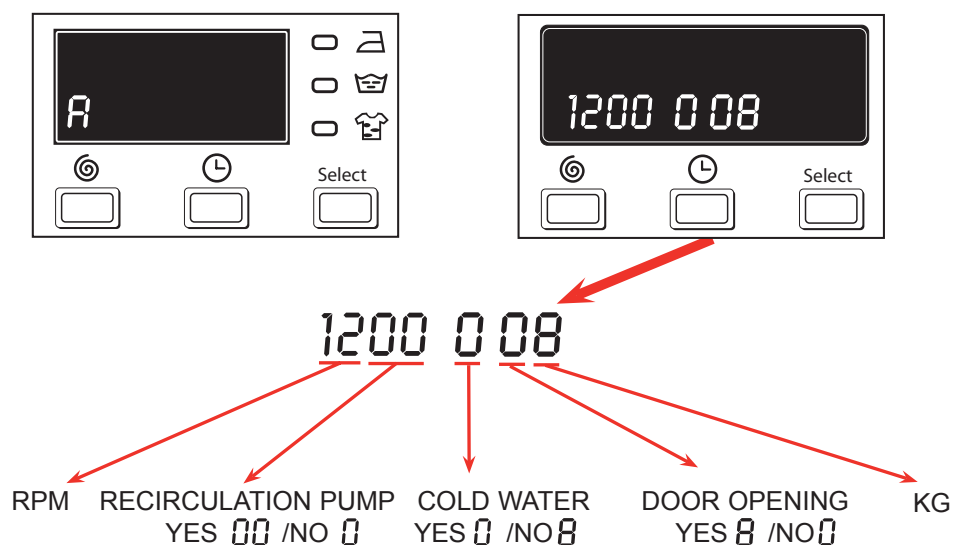
3.1.2.- V3 and V4 circuit configuration

If the circuit is not configured it will go into **A** status as soon as it is plugged in (go to step no. 7) If the circuit is configured it enters the current configuration. To change the configuration, follow these steps:

- 1.- Turn the machine off
- 2.- Press the start / pause button  and keep it pressed (until step 5)
- 3.- Press the button  for 1 second until the LCD screen lights up
- 4.- Press the spin button  and wait 2 seconds until the letter **A** is displayed on the LCD screen
- 5.- Release all keys simultaneously
- 6.- The door lock will be locked
- 7.- Press the spin button  (the last digit of the LCD will flash).
- 8.- Pressing the CLOCK button changes the parameter to be adjusted, starting with the KG digit and following the sequence KG – RPM – RECIRCULATION – HOT WATER – DOOR OPENING – KG....

Pressing the SPIN button changes the value of the parameter; the possible values are limited to the circuit's hardware reference and the selected KGs.



If the KGs are changed after having selected the RPM and the previous RPM value is not permitted for the newly selected KGs, the RPM will re-adjust to the value closest to the newly selected KGs.



<p>KG – Drum capacity 1</p> <p>7: 7 kg 8: 8 kg KG options depending on circuit references / washing machine model.</p>	<p>HOT WATER 4</p> <p>0: Cold water 8: Hot water If the circuit does not have this option it will always be 0.</p>
<p>R.P.M. (Revolutions per minute) 2</p> <p>These values depend on the hardware reference and the KGs selected.</p>	<p>DOOR OPENING 5</p> <p>0: WITHOUT door opening 8 : WITH instant door opening If the circuit does not have this option it will always be 0.</p>
<p>RECIRCULATION 3</p> <p>0: WITHOUT Recirculation Pump 00: WITH Recirculation Pump If the circuit does not have this option it will always be 0.</p>	<p>Circuit validation (see table 1) 6</p> <p>Once the circuit has been configured it is confirmed by pressing the start/pause button for 3 sec. until the digits stop flashing. After 3 sec. it exits the configuration process, entering the TSS programme (See table 1)</p>

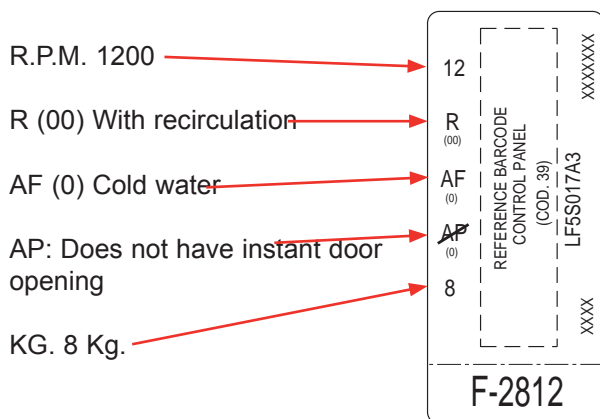
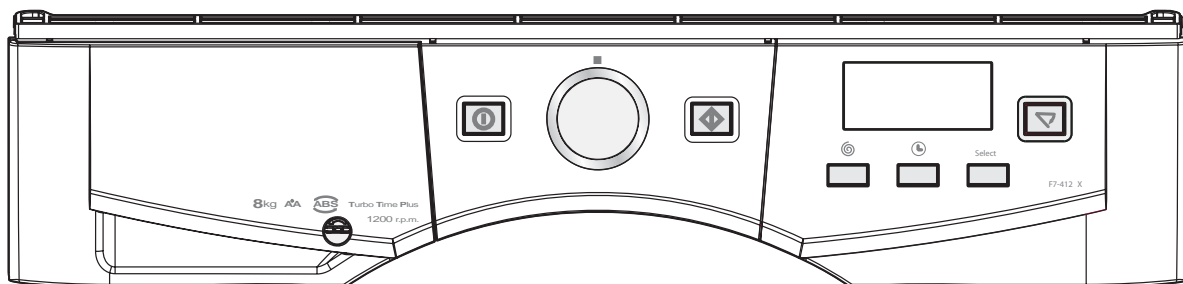
• Fagor T.S.S. Programme

In order to check the operation of the washing machine's electric components, select the T.S.S. programme by following these steps:

- 1.- General ON / OFF switch (LCD off)
- 2.- Press the start / pause button and keep it pressed 
- 3.- Hold down the ON/OFF switch until the LCD screen lights up.
- 4.- Press and hold down the select spin button and wait approx. 2/ 3 sec. until the letter **R** is displayed on the screen
- 5.- Release all buttons simultaneously
- 6.- Press the spin button and wait until the digits on the screen (LCD) appear (the last button on the right flashes).
- 7.- Press and hold down the start / pause button  until all the digits on the screen are flashing.
- 8.- The number 1 will be displayed on the screen – then follow the instructions in table 1, below.

DISPLAY	SELECTION MODE	TIME (APROX.)
1	Water intake via Pre-wash Electrovalve + Movement of wash motor at 55 rpm	10 seconds
2	Emptying + Spin	5 min.
3	Water inlet via the electronic valve for washing until wash level is reached	Pressure switch level
4	The resistance starts to heat up until it reaches 40°C + Intermittent recirculation 90 sec. without being activated and 30 sec. activated	40°C
5	Water input via pre-wash, wash and softener electrically operated valve + Recirculation	5 seconds
	Pump empty	30 seconds

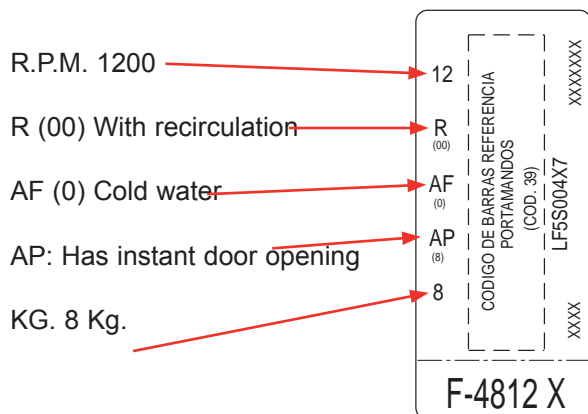
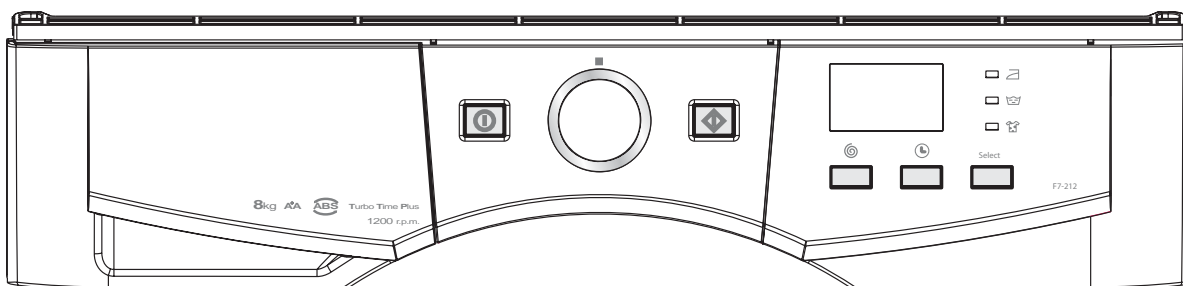
Label location: It is located in the detergent drawer.



To display the washer configuration:

- 1° Configure Kg.
 - 2° Configure R.P.M.
 - 3° Configure Recirculation
 - 4° Configure Cold water
 - 5° Configurar Door opening
- Press the START button for 3 seconds and the screen displays:

1200 008



To display the washer configuration:

- 1° Configure Kg.
 - 2° Configure R.P.M.
 - 3° Configure Recirculation
 - 4° Configure Cold water
 - 5° Configure Door opening
- Press the START button for 3 seconds and the screen displays:

1200 088

Fault modes description table

T.S.S. programme fast forward function: Press the start / pause button to move to another programme step without having to execute the step condition.	
SAFETY MECHANISMS	FAULTS
FILLING (F01)	EV activated for 8 min. and without water (except in the programme)
DOOR OPEN (F04)	Washing machines with instant opening door lock: At the beginning of the programme the circuit detects that the door is not closed Washing machines with FIC door lock: If the door lock is without power for 8 seconds the fault is displayed
EMPTYING (F02)	EB ON 6 min. and PN ON (full)
OVERFULL (F07)	The fault is displayed: If the pressure switch detects that the washing machine is too full If the pump connector is broken or is not connected
NTC (F05)	NTC in short circuit or open circuit
DOES NOT HEAT (F06)	$t < 5^{\circ}\text{C}/15 \text{ min.}$ (Except in reliability program)
MOTOR (F08)	Technogenerator failure, motor blocked - The wash programme is stopped for 120 seconds - The error counter starts counting - If the error counter counts 3 faults the error code F08 is displayed - When the stop time is exceeded the programme begins again If the error does not occur in the next 20 seconds the error counter is reset. The programme stops (in any instance) and starts again in the same position. If the error occurs in the spin phase the programme will start the whole spin sequence again from the start. This error returns to the initial conditions if the error is reset.
MOTOR INVERSION FAULT (F09)	The drum rotation direction does not change until the motor stops (max. time 2 min.)
INTERNAL DOMOTIC FAULT (F10)	Communication between the micro and the bus fails
EXTERNAL DOMOTIC FAULT (F11)	While communicating with the washing machine it is detected that a node is absent
BMF BUS FAULT (F12)	While communicating with a washing machine a BMF fault is detected. In order to detect it, the following must happen: - Display board: If the board does not receive the correct messages (can be checked in the BMF variable "SinTrafoEnBus==1") from the power board for more than 10 seconds, or if it is continually receiving LINK messages but not data messages. (Can be checked in the BMF by its meaning "TramabatosATratat==0") for more than 10 seconds, the fault F12 will be displayed. - Power board: If the power board is continually sending LINK messages to the display board for more than 10 seconds (the master can recognise and check the BMF variable "EstadoLinkNodos"), the F12 fault is then displayed and should be activated in the master. If the power board receives a correct message from the display board (Link_Response or Data) the F12 fault is reset.
WARNING	CHECK
IMBALANCE (C03)	If an imbalance is detected when it makes 18 attempts to spin or during 15 minutes of attempts
	ACTION
	RESET
	The fault is reset in the following manner: 1.- Cutting off the power (unplug or ON/OFF) 2.- Change the selector position
	RESET (security end)
	All options are reset if: 1- Power is lost (unplug or ON/OFF) 2.- Selector position changed 3.- If, when the programme finishes, the start button is pressed
	All options are reset if: 1.- Power is lost (unplug or ON/OFF) 2.- Selector position changed 3.- Door is closed (IF THE CIRCUIT IS IN A SPECIAL PROGRAMME (AP_01, AP_01, REP_01 OR SAT)) WHEN RESET IT RETURNS TO STATUS A)
	All options are reset if: 1- Power is lost (unplug or ON/OFF) 2- Selector position changed
	The machine stops with the door lock activated
	IN USER PROGRAMME STOP (Programme end)
	STOP (Programme end)
	The programme ends without heating the water
	STOP (Programme end) Door lock always activated
	The same as the previous ones but with the door lock activated
	See domestic document
	See domestic document
	See BMF document
	- Display Board: the fall and the related 10sec timer have to be reset when a correct data frame (identification or status frame) is received by the Display Board from the Power Board. -Power Board: If the Power Board receives a correct message (Link_Response or Data) from the Display Board, the F12 and the related 10sec timer have to be reset.
	See domestic document
	In V1 nothing happens In V3 and V4 the "@_symbol will flash intermittently
	In V1 nothing happens In versions V3 and V4 the "@_symbol and the lock symbol will flash intermittently
	In version V1 nothing happens In versions V3 and V4 the washing machine stops (Programme end)

The speeds allowed for the V3 circuits depend on the hardware reference (with/without double field) and the washing machine capacity (in kg), and are as follows:

	RPM						DOUBLE FIELD MOTOR				
5 kg	700	800	900	1000	1100	---	---	---	---	---	
6 kg	700	800	900	1000	1100	1200	1300	1400	---	---	
7 kg	700	800	900	1000	1100	1200	1300	1400	1500	1600	

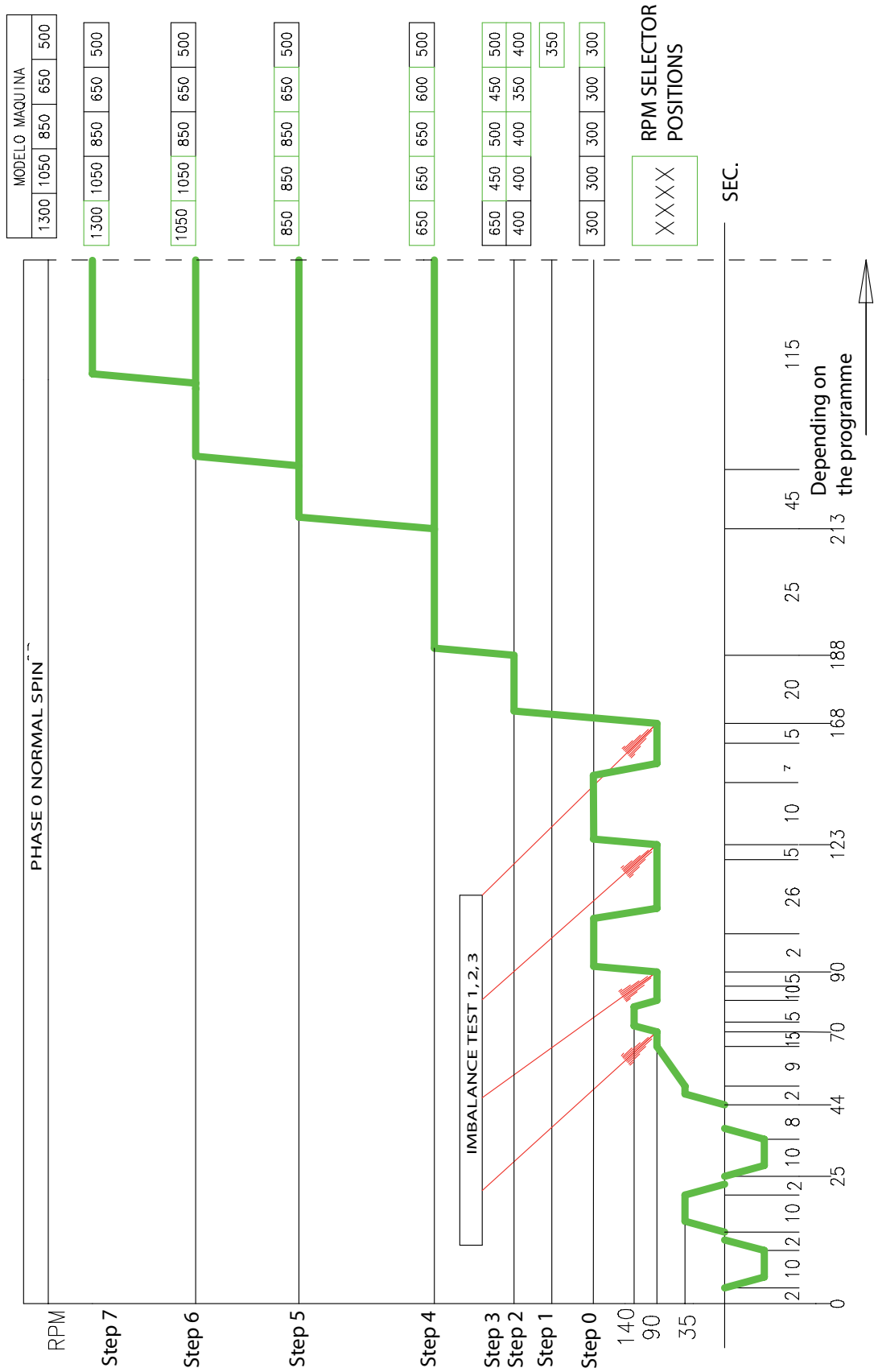
Once the circuit has been configured, it is confirmed by pressing the ON button for 3 seconds, which is when the selected code will appear in the LCD for 3 seconds without flashing, exiting the configuration process.

The speeds allowed for the V4 circuits depend on the hardware reference (with/without double field and FC) and the washing machine capacity (in kg), and are as follows:

	MOTOR 1250						DOUBLE FIELD MOTOR			
6 kg	700	800	900	1000	1100	1200	1300	1400	---	---
7 kg	700	800	900	1000	1100	1200	1300	1400	1500	1600

	FC (MOTOR CONVERTER)					
6 kg	1300	1400	---	---	---	---
7 kg	1300	1400	1500	1600	1700	1800

Normal spin:

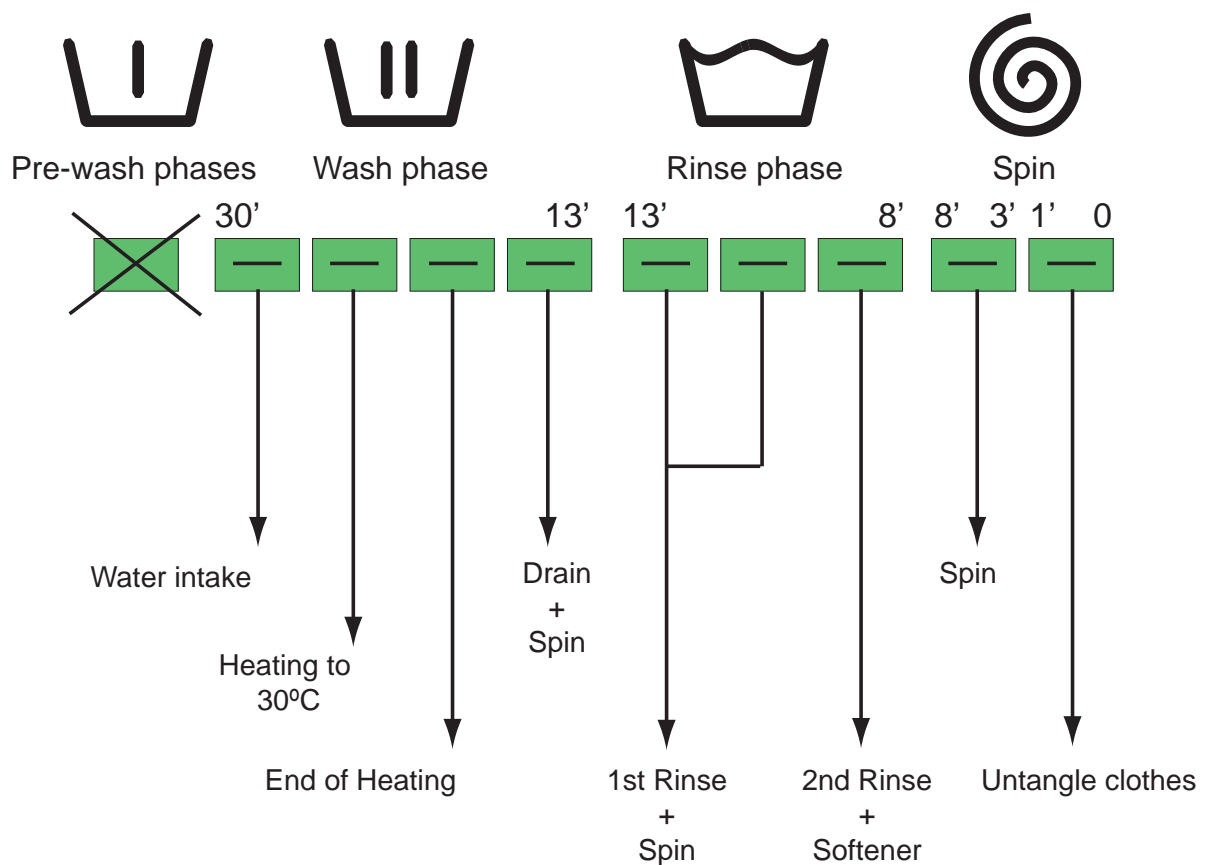


3.1.4.- Description of the operation of programme no. 2

Programme no. 2 is a short (quick) programme which takes 30 minutes and heats to 30°C.

It is a suitable programme for a technician making any operational checks.

The programme phases and their approximate start and end times are described below.



Note: When the LCD screen shows 000, the door lock is de-activated

3.1.5.- Attempts to spin

If the washing machine detects unbalanced clothes in the spin cycle it will follow this process:

The total number of attempts to start spinning is 20, divided according to these criteria.

In the first 6 attempts, the maximum unbalanced limit allowed is 550g.

From the 7th to 18th attempts the maximum unbalanced limit allowed is 800g and the final speed is less than the nominal speed, for example a 1,200 r.p.m. washing machine will spin at 1,000 r.p.m.

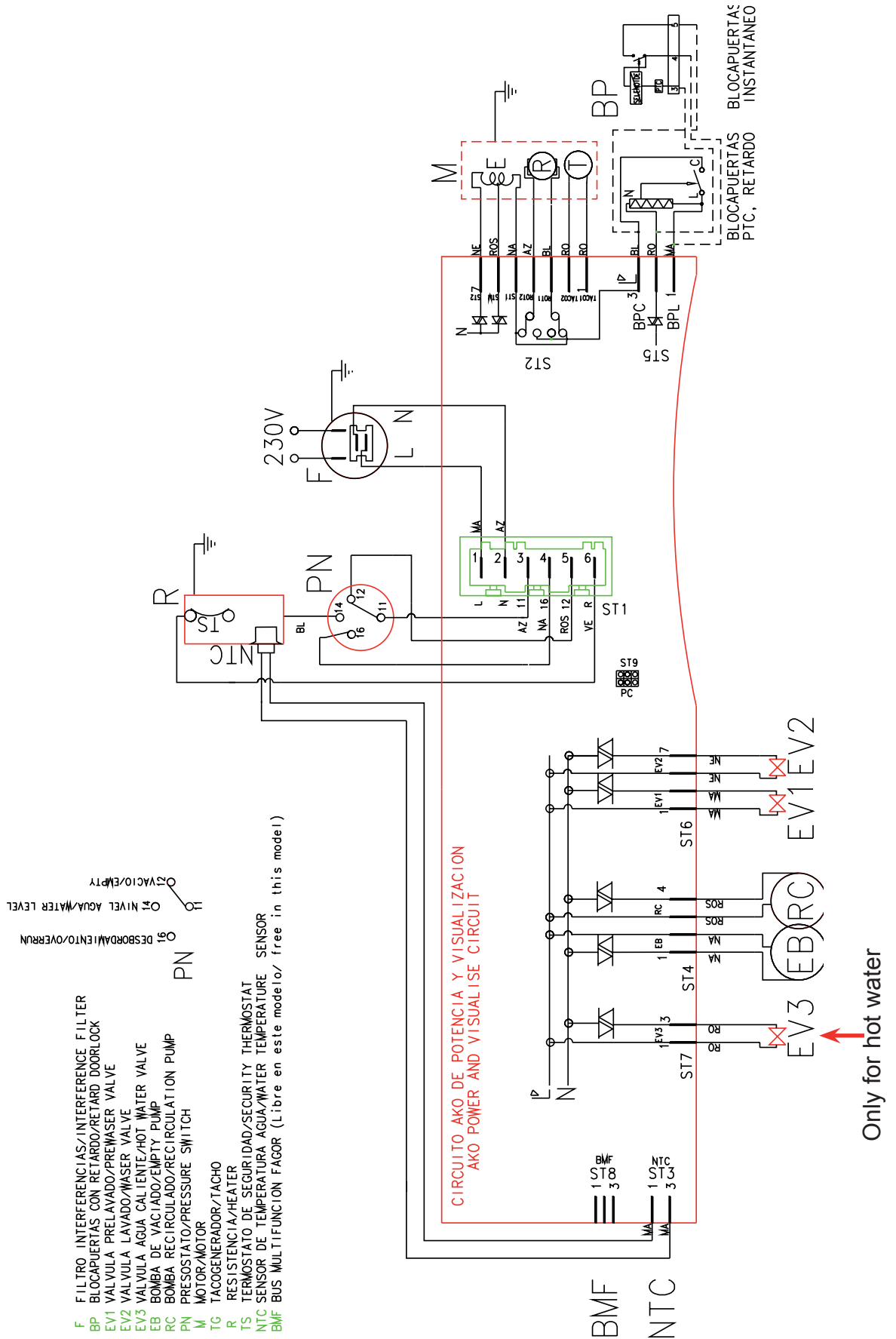
For the 19th and 20th attempts, the maximum unbalanced limit allowed is 1,500 g., and the final spin speed will be 650 r.p.m., except in washing machines with a nominal speed of 700 r.p.m., which will spin at 400 r.p.m.

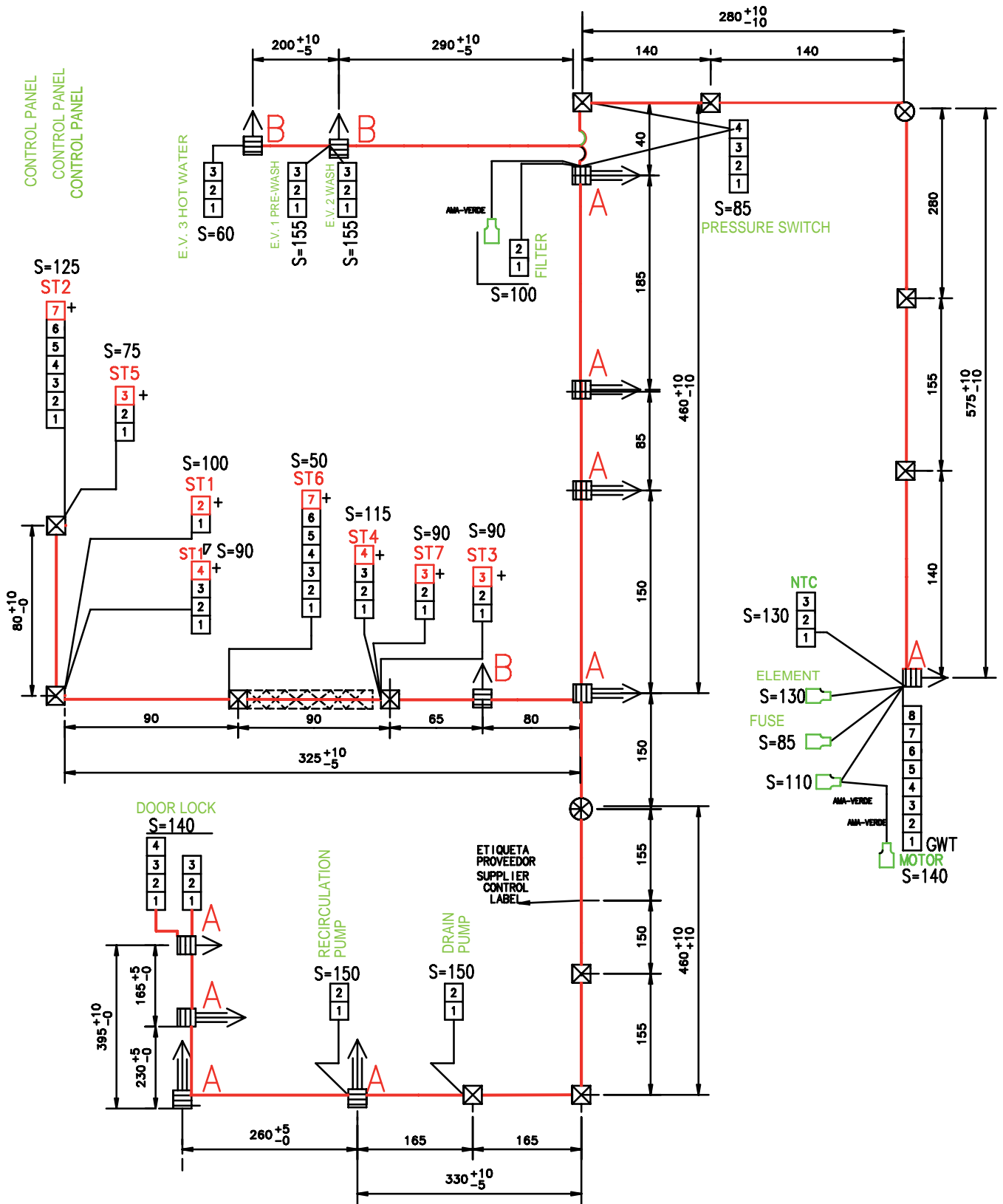
This number of attempts to reposition the clothes in the drum will increase the total programme time by 20 minutes.

At the end the LCD screen will display CO3. This is not considered a fault as it warns the user about the security measure the circuit has detected.

If an imbalance is detected in the rinse phase, the number of attempts will not exceed 3.

3.2.- Drawings and diagrams





Reference electric installation cold water with recirculation LH6J200A6.