



Manuale di servizio GD6 Service manual GD6

Conservare per futura
consultazione.
To be kept for future advice.

Parte 1 numero di serie \geq H0005202000

Part 1 serial number \geq H0005202000

Parte 2 numero di serie \leq H0005201999

Part 2 serial number \leq H0005201999



Contents Tumble drier GD6 & GD6C

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Introduction

You are holding the Service manual for the GD6 tumble dryer. The GD6 tumble dryers is available in two models, vented or condensing versions. The GD6 model, that this guide is focusing on, is designed for semi-professional use.

It should be easy to service a tumble dryer. It is important that you, as a service technician, are provided the necessary conditions to work in an efficient and satisfactory manner. Our hope is that this Service manual is a useful tool for your daily work.

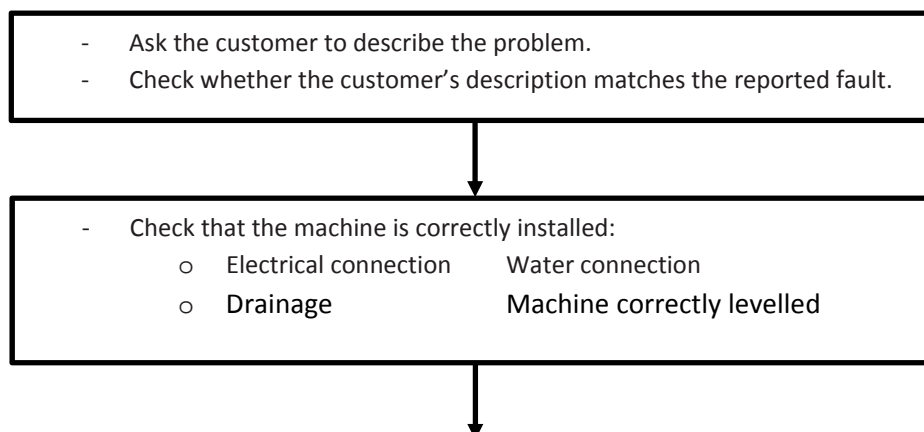
The type designation can be found on the machine plate, which is located on the rear plate of the drier.

OPERATING INSTRUCTIONS

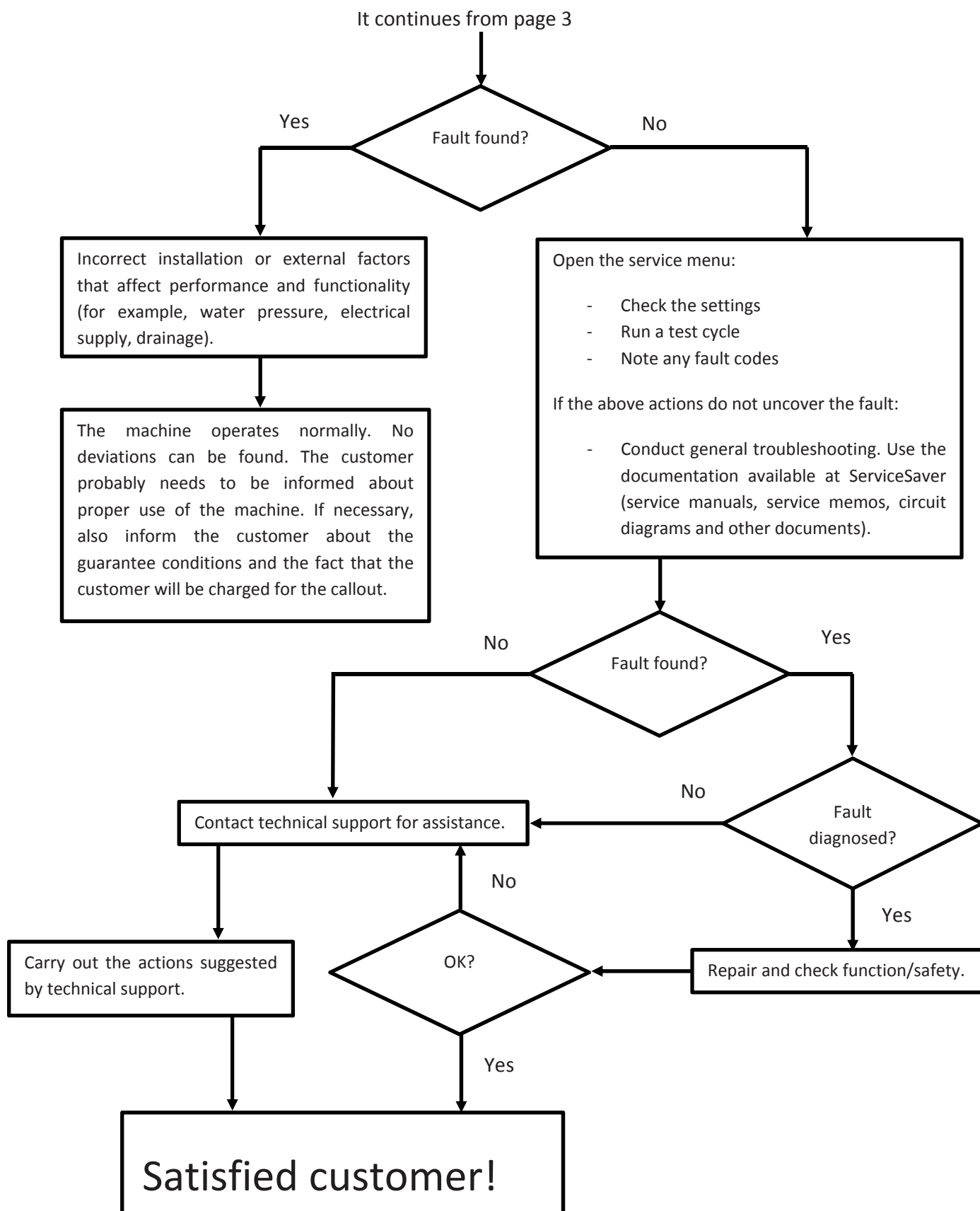
Always have the operating instructions for the machine available during service

Troubleshooting strategy

Troubleshooting is an important part of the service callout, and as such we have drawn up a troubleshooting strategy that describes, in broad terms and step by step, what you need to do to find and diagnose faults arising in our machines.



It continues at page 4



Product overview

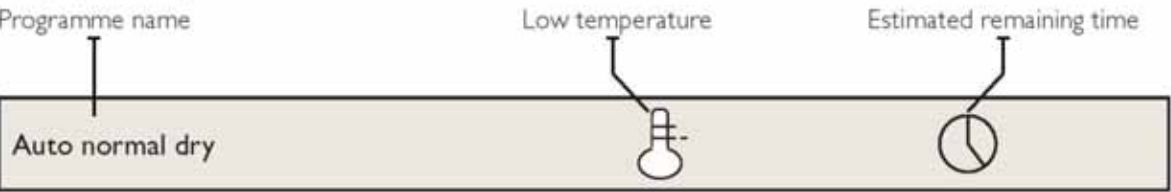


- Programmes: A total of 7 programmes.
- Settings: 4 settings (Language, Child-safe, Buzzer, Heater 2)

Knob and button descriptions

Turn/Push	Description
	Programme selector (JI) Turn clockwise or anti-clockwise to cycle through the different programmes and options in the various menus.
	Start button (S2) • Starta programme
	Stop button (S3) • Stop programme (press and hold for 3 seconds).

Display description



Technical data

Technical information	
Height	850 mm
Width	595 mm
Depth	585 mm
Weight	43 kg (Vented) 47 kg (Condenser)
Cylinder volume	112 litres
Capacity	EU 7.0 kg US/AU 7.0 kg
Speed	50-55 rpm
Connection	1-phase 230 V, 50/60 Hz, (10 A/16 A) ** 3-phase 400 V, 50/60 Hz, (10 A) **
Rated power	1950 W = 10 A** (Vented/Condenser) 3000 W = 16 A** (Vented) 2500 W = 16 A** (Condenser) The control buttons are used to switch between 10 A and 16 A via the software.
Drum material	Stainless steel
Outer panels	Powder-coated and hot-galvanised sheet steel or stainless steel
Installation	Stacked or freestanding
Protection class	IP X4

** See type plate.

Energy consumption and programme times

See the operating instructions for information on energy consumption and programme times.

Component description

Components and measurement values

The specified resistance values apply at room temperature (about 20°C/68°F). Values within $\pm 10\%$ are considered normal.

Article no.	Component	Measurement value	Comment
80 839 15	Motor 50 Hz, 220/240 V	Winding resistance: cable colour red-white 26.5 Ω cable colour red-blue 53.5 Ω cable colour white-blue 27.0 Ω Current: 0.7 A; 140 W; 2850 rpm	
80 839 16	Motor 60 Hz, 220/240 V	Winding resistance: cable colour red-white 26.5 Ω cable colour red-blue 53.5 Ω cable colour white-blue 27.0 Ω Current: 0.7 A; 140 W; 3300 rpm	The motor is a 2-pin motor and is directly connected to the fan for internal air and the gearing for driving the cylinder. On condenser dryers, the motor also drives the fan for external air.
80 903 13	Capacitor	8 μF	50 Hz
80 903 14	Capacitor	6 μF	60 Hz
80 821 28	Condensate pump		50 Hz
80 846 48	Condensate pump		60 Hz
80 762 02	EMC-filter with inductor		The filter eliminates interference to and from the machine.
80 833 44	Thermistor	4.8 k Ω (at 25°C)	The thermistor controls temperature regulation. If the thermistor is short-circuited or detaches from the control unit, the programme is stopped.
80 773 85	Thermostat 150	150°C automatic	The thermostat/overheating cut-out stops the programme if the temperature becomes too high.
80 792 00	Thermostat 135	135°C automatic	
80 902 24	Thermostat 110	110°C automatic	
80 761 04	Door switch		The front door triggers a door switch which stops the programme when the door is open. If the door has been opened and closed during the programme the machine must be restarted using the Start/Stop button.
80 761 03	Microswitch float Overflow guard		If both containers in the tumble dryer are full the programme is stopped by a float switch installed in the lower container. "Over flow" is indicated on the display.
	Electrical connection	Condenser I950W/I0A- 2500W/I16A Vented I950W/I0A- 3000W/I16A	The machine is delivered as single phase and can be switched between 10 A and 16 A. The control buttons are used to make the switch via the software. Does not apply to Heat Pump or Heating Water Circuit.

Component description

Components and measurement values cont.

Article no.	Component	Measurement value	Comment
80 824 92	Heating element 1950 W	Heater 1: 1950 W, 24,5 Ω	
80 915 90	Heating element 2500 W	Heater 1: 1950 W, 24,5 Ω Heater 2: 550 W, 91,4 Ω	
80 824 91	Heating element 3000 W	Heater 1: 1950 W, 24,5 Ω Heater 2: 1050 W, 45,5 Ω	
80 824 60	Heating element 3000 W	Heater 1: 1950 W, 90,2 Ω Heater 2: 1050 W, 167,6 Ω	Marine 440 V
80 824 61	Heating element 3000 W	Heater 1: 1950 W, 24,5 Ω Heater 2: 1050 W, 45,5 Ω	3-Phase
80 916 18	Heating element 2500 W	Heater 1: 1950 W, 24,5 Ω Heater 2: 550 W, 91,4 Ω	3-Phase
88 015 22	Control unit compl.		The control unit contains microprocessors for controlling
80 846 49	LED-light compl.		LED-technology for the machine's internal light.

Component description

Components and function description

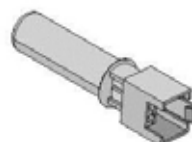
Here we describe the function and specification of the most important components. Certain components are found only in more highly specified machines or in particular markets. See the *Troubleshooting* chapter for fault and information codes.

CU (Control Unit)

The CU (Control Unit) functions as both a control panel and a logic component. The control panel is equipped with knobs/buttons for selecting programmes, Start/Stop buttons and a display. It is an integrated part of the CU and cannot be replaced separately. The logic component manages functions needed for drying programmes and diagnosis. The CU has an internal power supply for the logic component. In the event of a fault, the CU can diagnose a number of components and functions, and a total of 4 fault codes can be displayed. To facilitate troubleshooting there is a component testing function in which the outputs are activated according to a special sequence.

Power supply

Mains voltage, built-in internal voltage converter for the logic component.



Thermistors

The thermistors are of the NTC type (Negative Temperature Coefficient), which means their resistance decreases as temperature increases.

Thermistor 1 is in the air duct on the front frame, after the internal impeller. If there is an interruption in the thermistor circuit or if it short circuits, the drying programme stops and the display shows "Thermistor fault".

Purpose: Measures the temperature of the air that has passed the load and controls the drying process and the heating element.

Thermistor 2 is on condenser dryers located after the condenser.

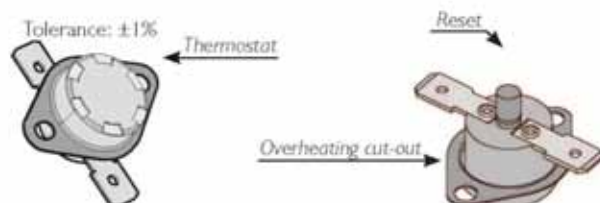
Purpose: Measures the temperature of the dehumidified air; the value of which is used as a parameter in the drying process.

Resistance values for thermistors 1 and 2

Temperature	Resistance
20°C	5989
25°C	4869
30°C	3946
35°C	3197
40°C	2598
45°C	2126
50°C	1758
55°C	1471
60°C	1240
65°C	1043
70°C	857

Personal notes

Component description



Thermostat and overheating cut-out

The thermostat is installed next to the heating element and is used to reduce the element output by turning it off if the ambient temperature exceeds 135°C ($\pm 5^{\circ}\text{C}$) for condenser dryers and 110°C ($\pm 5^{\circ}\text{C}$) for others.

The machine is equipped with a overheating cut-out, which is available in two versions, one automatically resettable and one manual. The overheating cut-out switches off the power supply to all components if the temperature exceeds 150°C ($\pm 5^{\circ}\text{C}$) and closes the circuit once the temperature drops below 135°C ($\pm 8^{\circ}\text{C}$). The drying programme stops and must be restarted if the overheating cut-out is triggered.

To reset the manual overheating cut-out, the cover plate on the machines back must be removed. Press the button on the overheating cut-out for manual reset.

The automatic overheating cut-out resets when the temperature drops below 135°C ($\pm 8^{\circ}\text{C}$) for condenser dryer and 120°C ($\pm 5^{\circ}\text{C}$) for others.

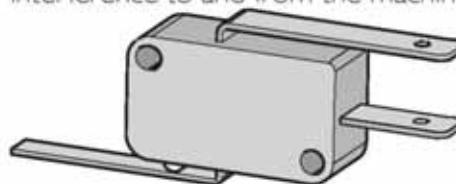
Purpose: The thermostat measures temperature and controls heating element output. The overheating cut-out controls the temperature and cuts the power supply if the machine overheats.



EMC filter

The filter is installed next to the cable fasteners where the connection cable enters the machine. The filter consists of a number of coils, condensers and resistors.

Purpose: To eliminate electromagnetic interference to and from the machine.



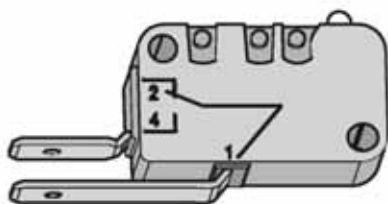
Overflow guard

The overflow guard comprises a microswitch triggered by a float. When the lower condensed water container becomes full the float rises and triggers the microswitch. The microswitch is normally closed; when activated it opens the circuit. When the microswitch has been open for more than 30 seconds, the drying programme stops and the display shows "Over flow". You can erase this message by turning the programme selector or pressing the Start/Stop buttons.

Purpose: To provide protection from any water leaks or flooding from the machine.

Personal notes

Component description



Door switch

The door switch is located in a holder in the middle of the front support and is activated by a pin in the front door. The switch is normally open and closes when the door is closed. If the front door is opened during operation the CU stops the drying programme. The programme starts from the beginning if restarted.

Purpose: To prevent the machine from running while the door is open.



Drying motor

The motor is at the bottom and drives the impeller that is directly fitted to the shaft journal. The motor is a unit with a belt tensioner and springs and drives the drying drum via a poly V-belt.

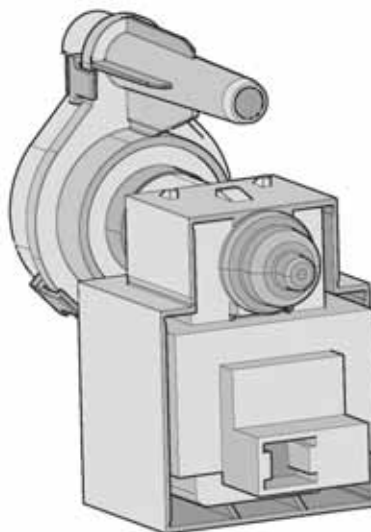
Purpose: To drive the impeller and drum during the drying process.



Heating element

The heating element is located in the rear section and consists of two separate heating coils. Each heating coil is made from resistance wire.

Purpose: To heat the drying air to the right temperature.



Drainage pump (condenser dryer)

The drainage pump is located in the lower condensed water container. The condensed water is pumped to the condensed water container or directly to the drain. When a drying programme is running, the drainage pump is activated constantly in cycles of 30 seconds ON and 210 seconds OFF.

Purpose: To pump condensed water to the condensed water container or the drain.



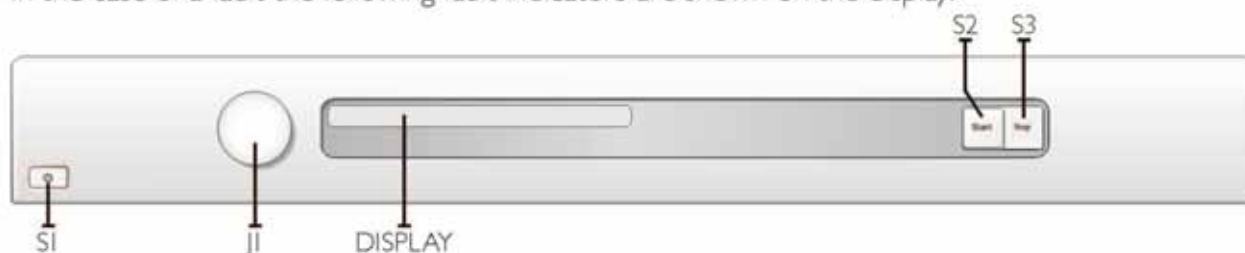
Light

Certain machines have an internal light that is activated when the door is opened. LED technology is used to improve energy efficiency.

Troubleshooting

Fault indicators

In the case of a fault the following fault indicators are shown on the display.



Display	Cause	Action
Over flow fault, Overflow Fault, Over flow fault, Överflyllnad, Överlöbsfejl, Överflom, Ylitulviminen, Trop plein, Überlauf, Troppo pieno, Desborde, Перелив воды, Te veel water	The microswitch is opened when a full condensed water tank is detected. Detection begins 30 seconds after the programme starts. If the microswitch is open >30 seconds the programme cycle is stopped.	<p>Check whether the customer has:</p> <ul style="list-style-type: none"> Emptied the tank and restarted the machine. <p>Service action:</p> <ul style="list-style-type: none"> Clean hoses and check voltage and resistance of drainage pump. Check that the float has not got "stuck" and check the function of the microswitch.
Max Program Time, Max program time, Maximal programtid, Maksimal programtid, Maks programtid, Max ohjelma-aika, Durée maxi prog., Tijd overschreden, Tempo max. progr., Duración máx prog., Превышение времени, Max. Programmzeit	<p>The programme cycle time exceeds 200 minutes. The cycle is stopped and the programme is reset.</p> <p>High ambient temperature combined with low heater output and low drying temperature leads to poor condensation formation.</p> <p>Poor condensation due to blocked external air</p>	<p>Check whether the customer has:</p> <ul style="list-style-type: none"> Tried spinning at a higher speed. Had the machine switched off for 30 minutes before restarting. Good ventilation in the room. <p>Service action:</p> <ul style="list-style-type: none"> Ensure that the external air has free passage.
Thermistor fault, Thermistor Fault, Thermistor fault, Termistorfel, Termostat fejl, Termistor, Termistorivika, Défaut, Termistorfehler, Termistore, Fallo, Термистор, Temp. sensor fout	<ol style="list-style-type: none"> Thermistor circuit open Thermistor malfunction 	<p>Service action:</p> <p>Check the thermistor. Replace if necessary.</p>
Clean condenser, Rengör kondensor, Rens kon.sator, Rens kon.sator, Puhdista lauhdutin, Nettoyage condenseur, Reinigen kondensor, Pulizia condensatore, Limpiar condensador, Очистить конденсатор, Kondenser reinigen	<ol style="list-style-type: none"> Displayed according to the interval set in the service menu. 	<p>Check whether the customer has:</p> <ul style="list-style-type: none"> Cleaned the condenser/evaporator and filter. Cleaned the other air passages.

Troubleshooting

Fault indicators cont.

Display	Cause	Action
Clean Lint Filter, Clean Lint Filter, Rengör filteret, Rengør fnugfilter, Rens filter, Puhdistä sihti, Nettoyage filtre, Reinig filter, Pulizia filtro, Limpie el filtro, Очистить фильтр, Sieb reinigen	1. Displayed according to the interval set in the service menu.	Check whether the customer has: <ul style="list-style-type: none"> • Cleaned the lint filter.

After carrying out corrective actions as above, reset the fault indication on the display by switching off the machine at the main power switch.

Other faults

If the tumble dryer does not work, you should first check whether this is due to a simple fault, something that the customer can rectify.

Fault symptom	Cause	Action
The machine will not start.	The outer door is not properly closed.	• Check that the door pin is activating the door switch.
	The machine is not supplied with power.	• Check the fuses and connections.
The machine stops.	The manuel overheating cut-out has tripped. Not heat pump dryers (HP).	Service action: <ul style="list-style-type: none"> • Clean internal impeller, condenser, air ducts and element. • Check the seals.
	The overheating cut-out in the motor has been tripped.	• Clean and check the motor. • If necessary, replace motor.
	Defective control unit	• Replace control unit.
The washing does not get dry.	Air leakage through the door seals is affecting the drying results.	• Check the sealing strips.
	Air leakage around the motor shaft is affecting the drying results.	• Check the seal around the motor shaft.
	Defective rear thermistor	• Replace thermistor.
	Defective control unit	• Replace control unit.
Drying is uneven.	Mixing various types of items can lead to uneven drying results.	Information to customer: <ul style="list-style-type: none"> • Ensure that different types of items are not dried in the same load. Remove any dry items.
	How full the machine is affects the drying results.	Information to customer: <ul style="list-style-type: none"> • Check that the machine is not overfilled. Remove some of the washing if necessary.
Tumble-drying takes too long.	The lint filter is blocked.	Information to customer: <ul style="list-style-type: none"> • Clean the lint filter.
	The condenser unit is blocked.	Information to customer: <ul style="list-style-type: none"> • Clean the condenser.
	The washing machine's spinning affects drying.	Information to customer: <ul style="list-style-type: none"> • Spin at a minimum of 800 rpm.
	The machine is in a room with poor ventilation.	Information to customer: <ul style="list-style-type: none"> • Open doors to adjacent rooms.
	The evacuation hose is too long, blocked or bent.	Information to customer: <ul style="list-style-type: none"> • Try to make the hose length as short as possible with as gentle bends as possible.

Service menu



Opening the service menu	
	Check that the machine is switched off. Otherwise switch off the main power by pressing the main power switch (SI). Press and hold the Start button (S2) while turning on the main power with the main power switch (SI).
	Press the Start button (S2) 5 times within 5 seconds. The service menu is now activated, as seen in the display window. The service menu can be closed by turning off the power with the main power switch (SI).
	Press the Stop button (S3) to navigate the menu system step by step.
	Turn the programme selector (JI) to make selections from the menus. Confirm the selection and continue to the next menu by pressing the Stop button (S3).
	Press the Start button (S2) to confirm the settings and exit the service menu.

Turn/ Push	Display	Comments/instructions	
	SP: xxxx	Date the software was programmed (Year_Week)	TRACKING DATA
	CM: xxxx	Date of manufacture of the control unit (Year_Week)	
	SV: xxxxxxxxxx	Software version number	
	NCP0: xxxxxxxxxx	Total number of cycles run	
	NCP1: xxxxxxxxxx	Number of cycles run for Programme 1	
	NCP2: xxxxxxxxxx	Number of cycles run for Programme 2	
	NCP3: xxxxxxxxxx	Number of cycles run for Programme 3	
	NCP4: xxxxxxxxxx	Number of cycles run for Programme 4	
	NCP5: xxxxxxxxxx	Number of cycles run for Programme 5	
	NCP6: xxxxxxxxxx	Number of cycles run for Programme 6	
	NCP7: xxxxxxxxxx	Number of cycles run for Programme 7	
	NCP8: xxxxxxxxxx	Number of cycles run for Programme 8	
	NCP9: xxxxxxxxxx	Number of cycles run for Programme 9	FAILURE REEDD OUT
	NCP10: xxxxxxxxxx	Number of cycles run for Programme 10	
	NCP11: xxxxxxxxxx	Number of cycles run for Programme 11	
	"Fault No. of cycles (1)"	Last three faults and number of cycles (when the fault occurred) shown. A total reset deletes the fault indications from the system. If the same fault recurs at different times, this is shown, but only once in the list.	FAILURE REEDD OUT
	"Fault No. of cycles (2)"		
	"Fault No. of cycles (3)"		

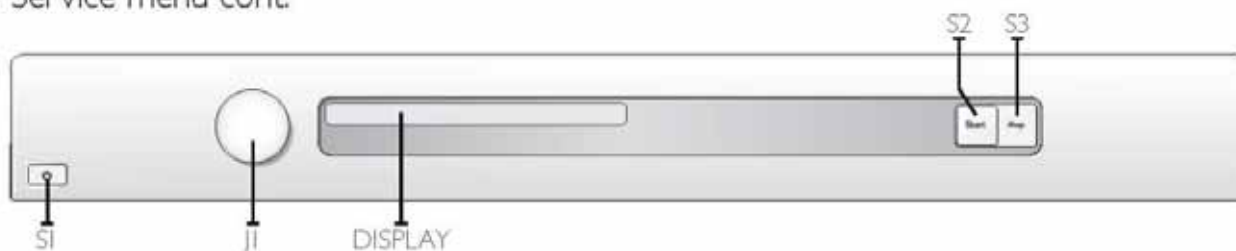
Panel key: S = Push button, J = Knob







Service menu cont.



Turn/ Push	Display	Comments/instructions	
	Test	No component tested	DIAGNOST
	Test motor	The motor runs at normal speed	
	Test heater 1	The motor runs at normal speed. Heating element 1 is switched on and off by the CU depending on the values registered by thermistors 1 and 2. Max. temp. 70°C. (Only if setting for heat pump is <i>Heat Pump Off</i>)	
	Test heater 2	The motor runs at normal speed. Heating element 2 is switched on and off by the CU depending on the values registered by thermistors 1 and 2. Max. temp. 70°C. (Only for condenser and vented machines and where setting for steam is <i>Steam Off</i>)	
	Test drain	The condensed water pump starts (only condenser)	
	Test buzzer	Buzzer on continuously	
	Dry level 0	Drying time extended by 0, default setting	DRY LEVEL
	Dry level +5	Drying time extended by 5 min	
	Dry level +10	Drying time extended by 10 min	
	Dry level +15	Drying time extended by 15 min	
	Dry level +20	Drying time extended by 20 min	
	Auto extra dry	Off	BLOCK PROGRAMS
		On	
	Auto dry	Off	
		On	
	Auto normal dry	Off	
		On	
	Auto extra dry	Off	
		On	
	Auto dry	Off	
		On	
	Auto normal dry	Off	
		On	
Auto iron dry	Off		
	On		
	Coin Off	Setting for coin operations Off, default setting	COIN
	Coin On	Setting for coin operations On	

Service menu cont.



Turn/ Push	Display	Comments/instructions	
	Filter Interval 2	Interval for indication "Clean filter", default setting (every 2nd cycle)	CLEAN FILTER
	Filter Interval 3	Interval for indication "Clean filter" (every 3rd cycle)	
	Filter Interval 4	Interval for indication "Clean filter" (every 4th cycle)	
	Filter Interval 5	Interval for indication "Clean filter" (every 5th cycle)	
	Filter Interval 6	Interval for indication "Clean filter" (every 6th cycle)	
	Filter Interval 7	Interval for indication "Clean filter" (every 7th cycle)	
	Filter Interval 8	Interval for indication "Clean filter" (every 8th cycle)	
	Filter Interval 9	Interval for indication "Clean filter" (every 9th cycle)	
	Filter Interval 10	Interval for indication "Clean filter" (every 10th cycle)	
	Filter Interval 1	Interval for indication "Clean filter" (every cycle)	
	Filter Interval 0	Interval for indication "Clean filter" (not shown)	
			
	Condense Interval 0	Interval for indication "Clean condense", default setting (not shown)	CLEAN CONDENSE (Condenser)
	Condense Interval 1	Interval for indication "Clean condense" (every 10th cycle)	
	Condense Interval 2	Interval for indication "Clean condense" (every 20th cycle)	
	Condense Interval 3	Interval for indication "Clean condense" (every 30th cycle)	
	Condense Interval 4	Interval for indication "Clean condense" (every 40th cycle)	
	Condense Interval 5	Interval for indication "Clean condense" (every 50th cycle)	
	Condense Interval 6	Interval for indication "Clean condense" (every 60th cycle)	
	Condense Interval 7	Interval for indication "Clean condense" (every 70th cycle)	
	Condense Interval 8	Interval for indication "Clean condense" (every 80th cycle)	
	Condense Interval 9	Interval for indication "Clean condense" (every 90th cycle)	
	Condense Interval 10	Interval for indication "Clean condense" (every 100th cycle)	
			
	Auto filter Interval 2	Interval for indication "Clean auto filter", default setting (every 20th cycle)	CLEAN AUTO FILTER
	Auto filter Interval 3	Interval for indication "Clean auto filter" (every 30th cycle)	
	Auto filter Interval 4	Interval for indication "Clean auto filter" (every 40th cycle)	
	Auto filter Interval 5	Interval for indication "Clean auto filter" (every 50th cycle)	
	Auto filter Interval 6	Interval for indication "Clean auto filter" (every 60th cycle)	
	Auto filter Interval 7	Interval for indication "Clean auto filter" (every 70th cycle)	
	Auto filter Interval 8	Interval for indication "Clean auto filter" (every 80th cycle)	
	Auto filter Interval 9	Interval for indication "Clean auto filter" (every 90th cycle)	
	Auto filter Interval 10	Interval for indication "Clean auto filter" (every 100th cycle)	
	Auto filter Interval 1	Interval for indication "Clean auto filter" (every 10th cycle)	
	Auto filter Interval 0	Interval for indication "Clean auto filter" (not shown)	
			

Panel key: S = Push button, J = Knob

Service menu cont.

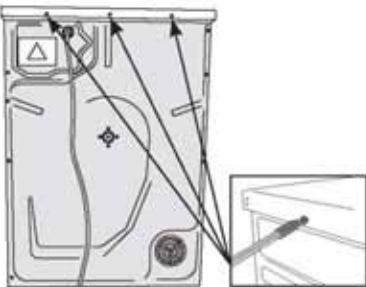
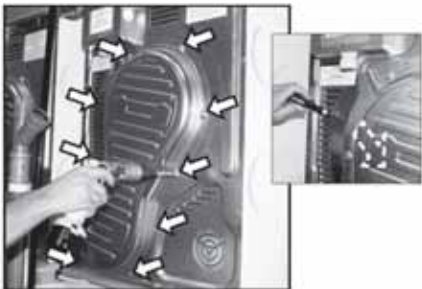
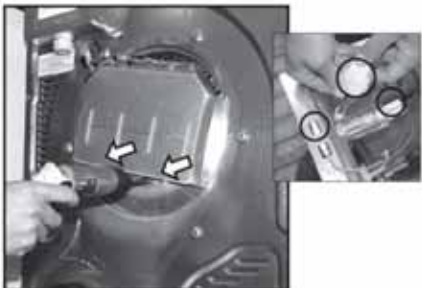

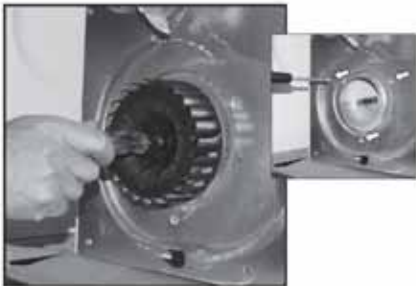


Turn/ Push	Display	Comments/instructions	
	Heat pump Off	Setting for Heat pump Off	HEAT PUMP
	Heat pump On	Setting for Heat pump On, default setting	
	Auto filter Off	Setting for self-cleaning filter Off	AUTO FILTER
	Auto filter On	Setting for self-cleaning filter On, default setting	
	Language Off	Setting for temporary language Off	Temporary language
	Language on	Setting for temporary language On It is possible to temporarily change to language in the machine. The language shall return to selected machine language (selected in user menu) when the program is finished.	
	Total reset	Press the Stop button (S3) to return to the beginning of the service menu.	TOTAL RESET
		Total reset if Start button (S2) is pressed. After restart language setting is shown. Turn programme selector (JI) to select language and confirm by pressing Start button (S2).	

Panel key: S = Push button, J = Knob

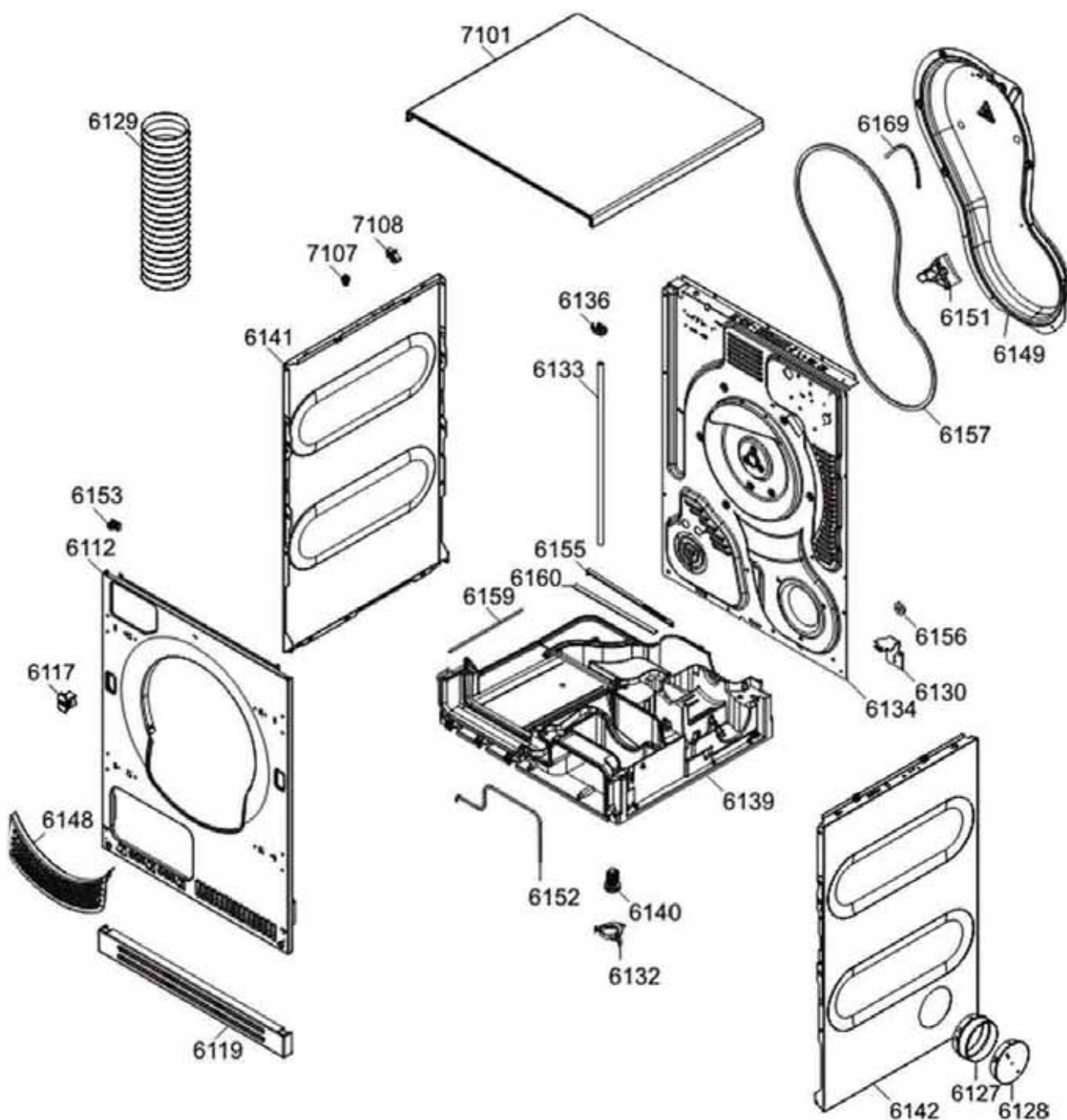
Service and installation

Dismount top cover and back rear

Instructions	Illustration
1. Unscrew the top cover:	
2. Dismount the panel rear cover by removing the screws and carefully bend in the upper edge.	
3. Dismount the heating element by removing the screws and disconnect the cables.	
4. Release the nut bearing lock (socket wrench 19).	
5. Remove the external fan wheel (socket wrench 10) and unscrew the encircling screws (Torx 10).	

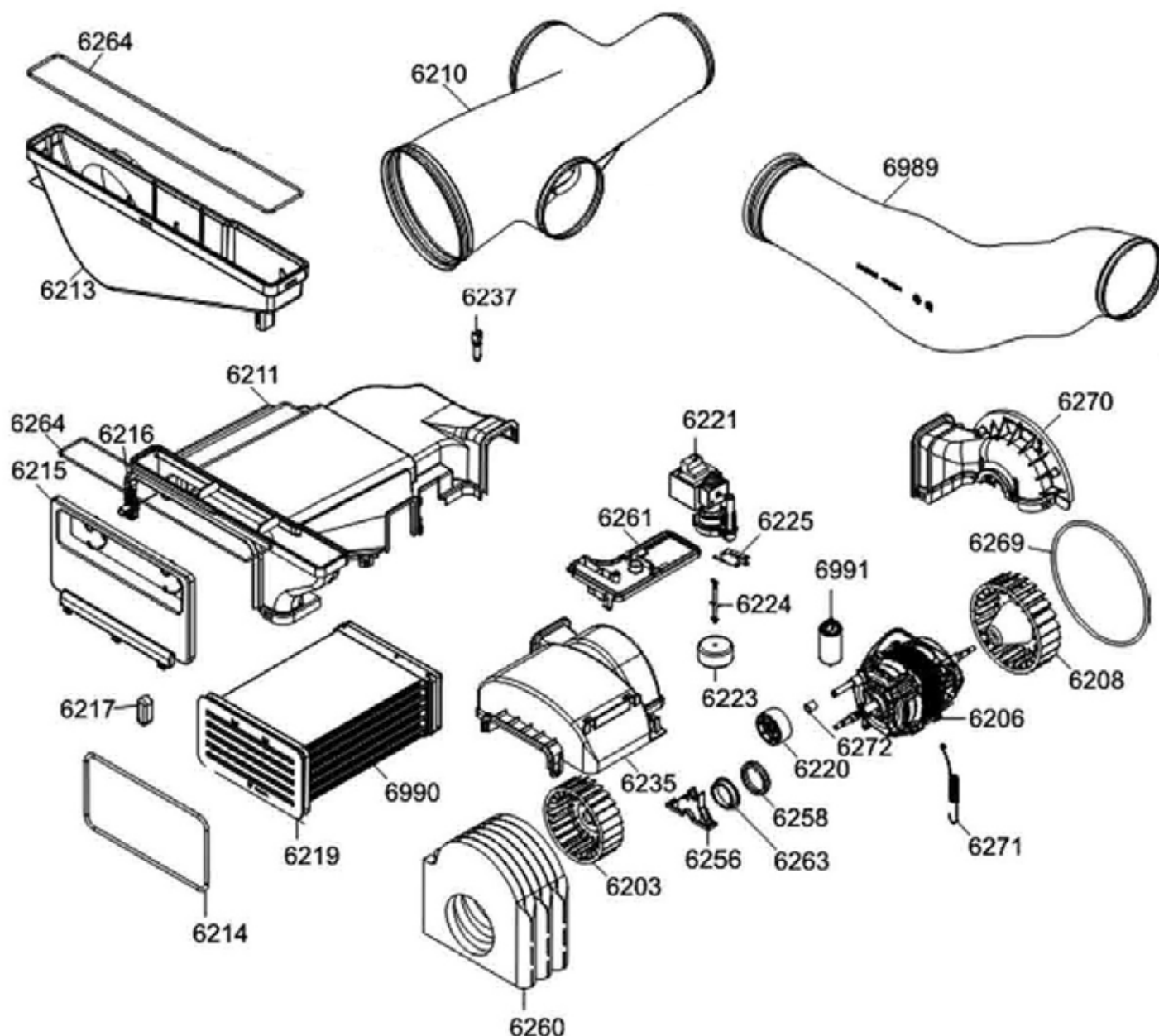
Descr.	Pannellatura	Cabinet
Fig.	1	
Model	GD 6	GDC 6

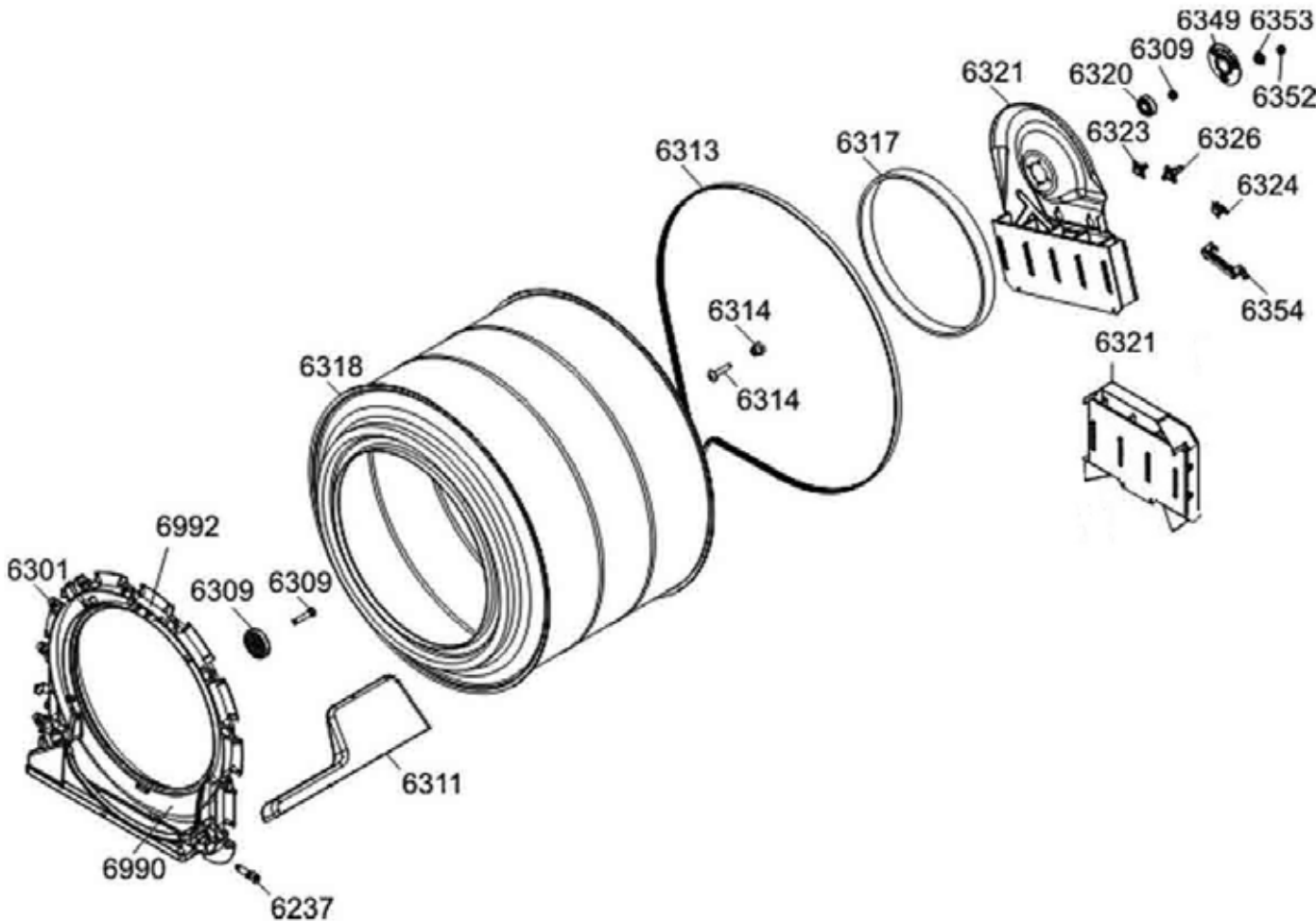
SERIAL NUMBER \geq H0005203000



Descr.	Assieme inferiore	Lower assembly
Fig.	2	
Model	GD 6	GDC 6

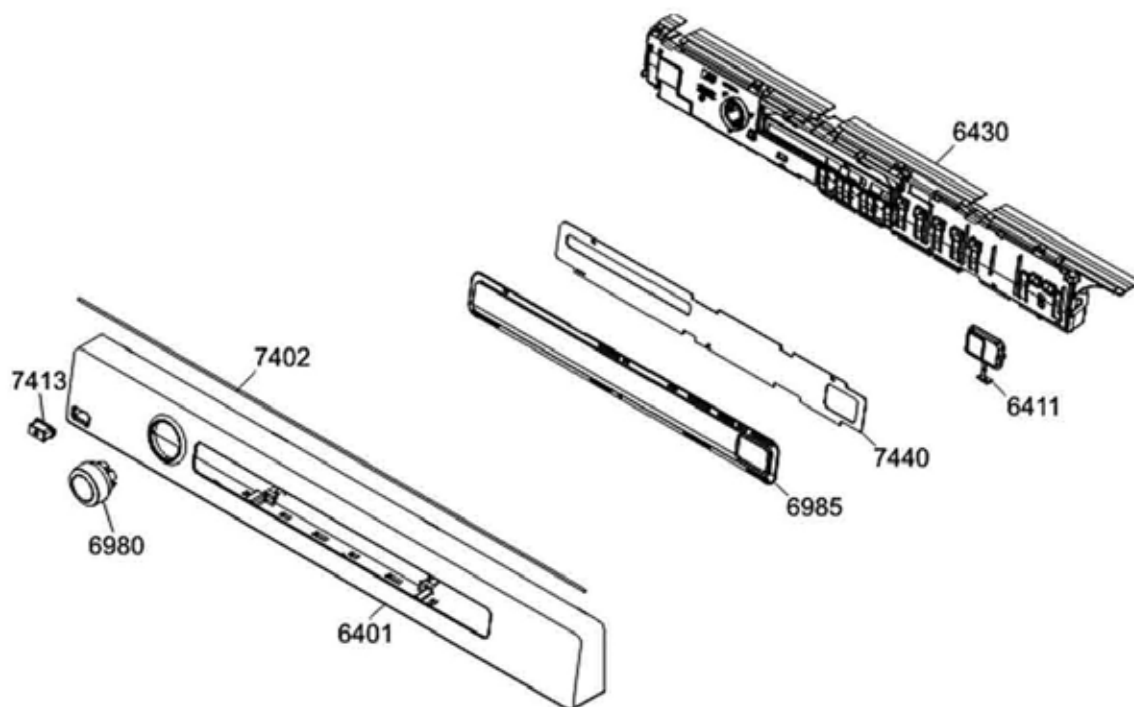
SERIAL NUMBER \geq H0005203000



Descr.	Assieme cesto		Drum assembly	
Fig.	3			
Model	GD 6		GDC 6	
	SERIAL NUMBER ≥ H0005203000			
				

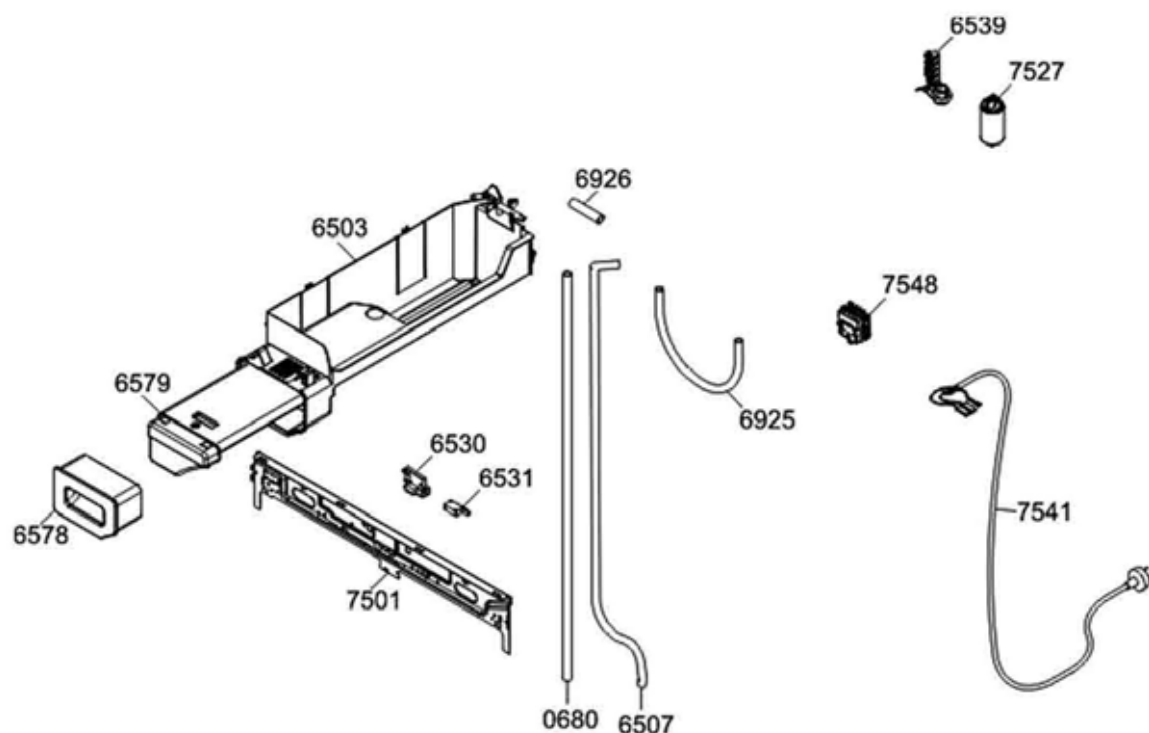
Descr.	Assieme pannello controllo	Control panel assembly
Fig.	4	
Model	GD 6	GDC 6

SERIAL NUMBER ≥ H0005203000



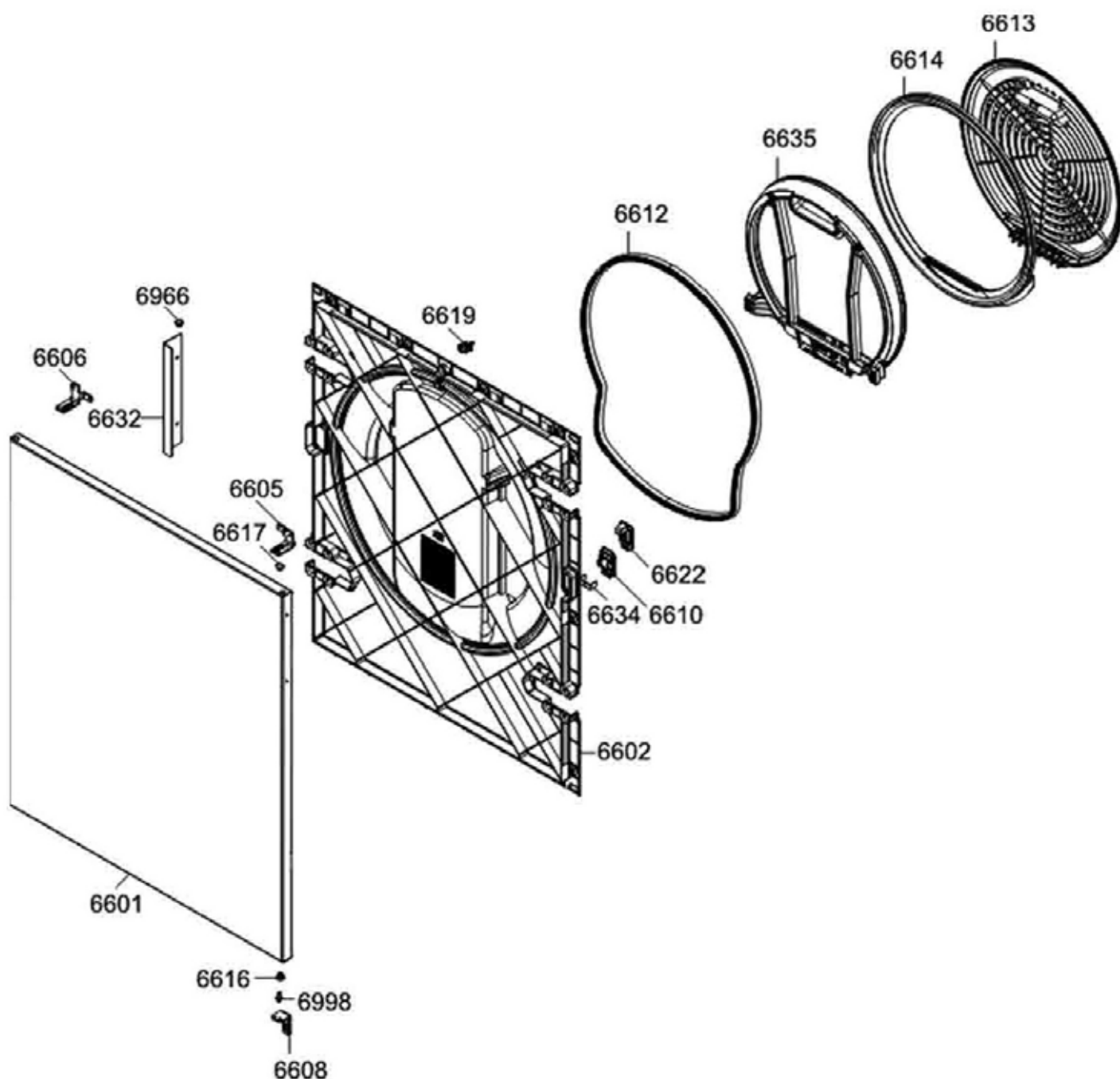
Descr.	Assieme superiore	Upper assembly
Fig.	5	
Model	GD 6	GDC 6

SERIAL NUMBER ≥ H0005203000



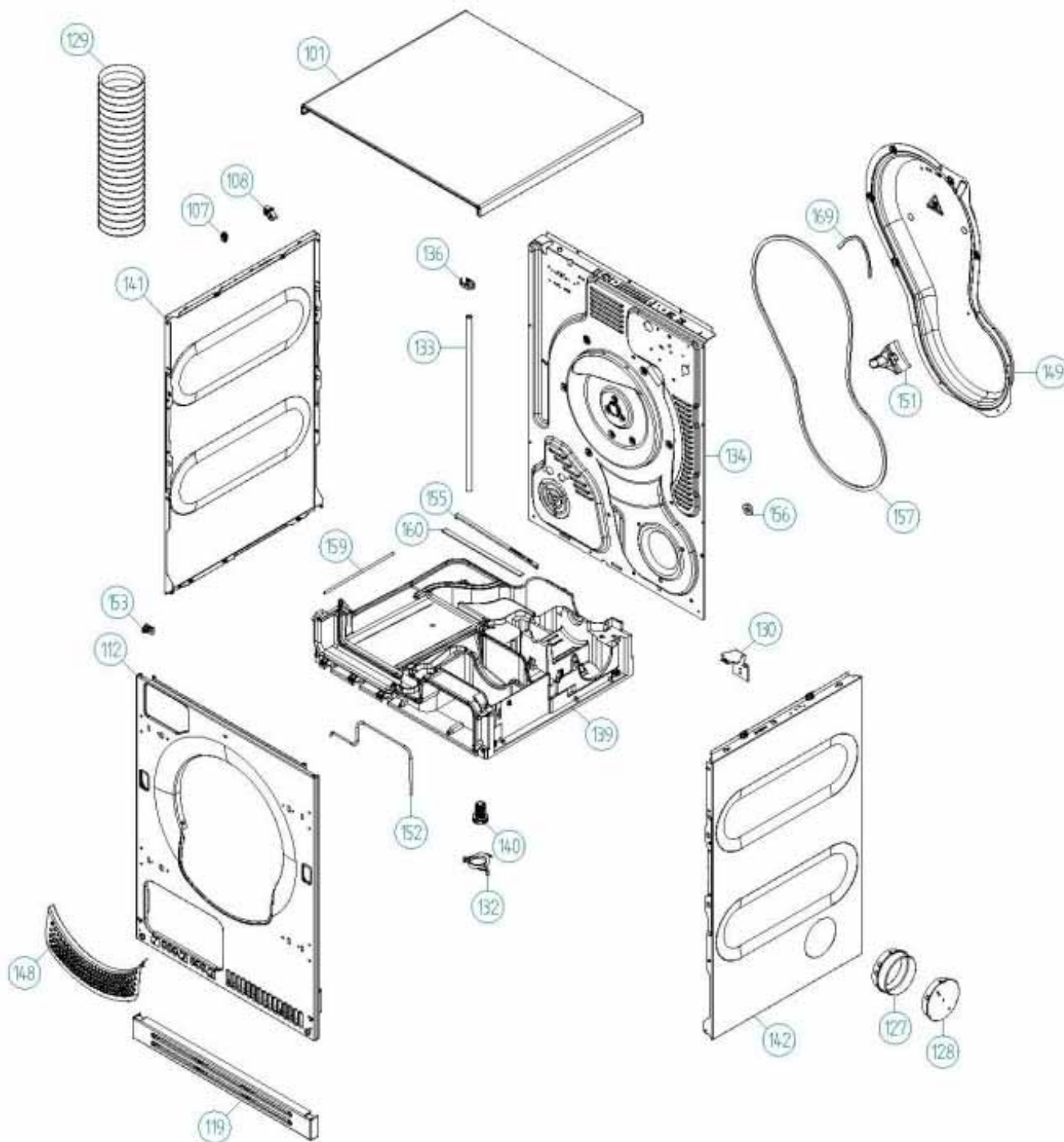
Descr.	Assieme porta	Door assembly
Fig.	6	
Model	GD 6	GDC 6

SERIAL NUMBER \geq H0005203000



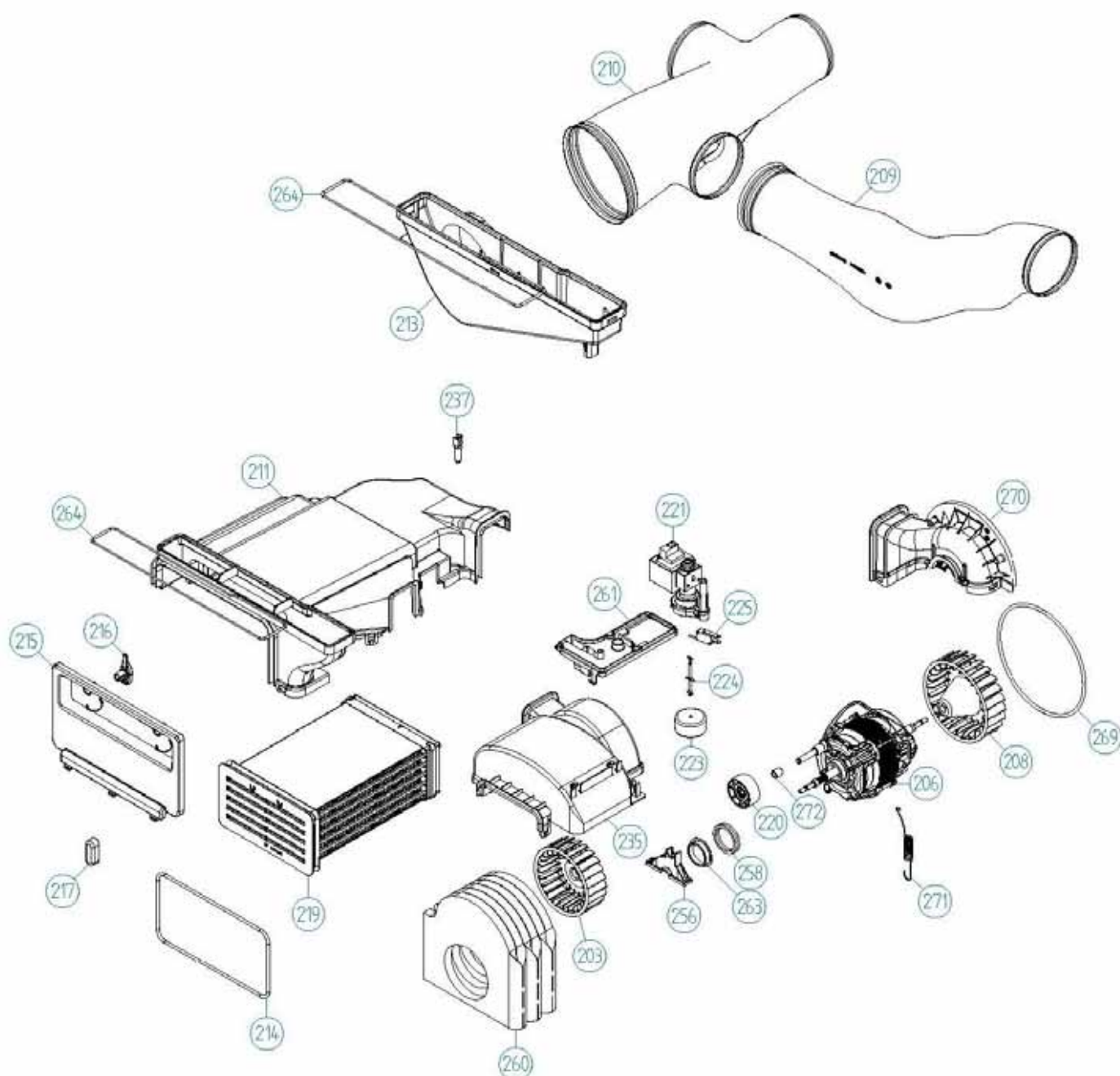
Descr.	Pannellatura	Cabinet
Fig.	1	
Model	GD 6	GDC 6

SERIAL NUMBER H0005202000 → H0005202999



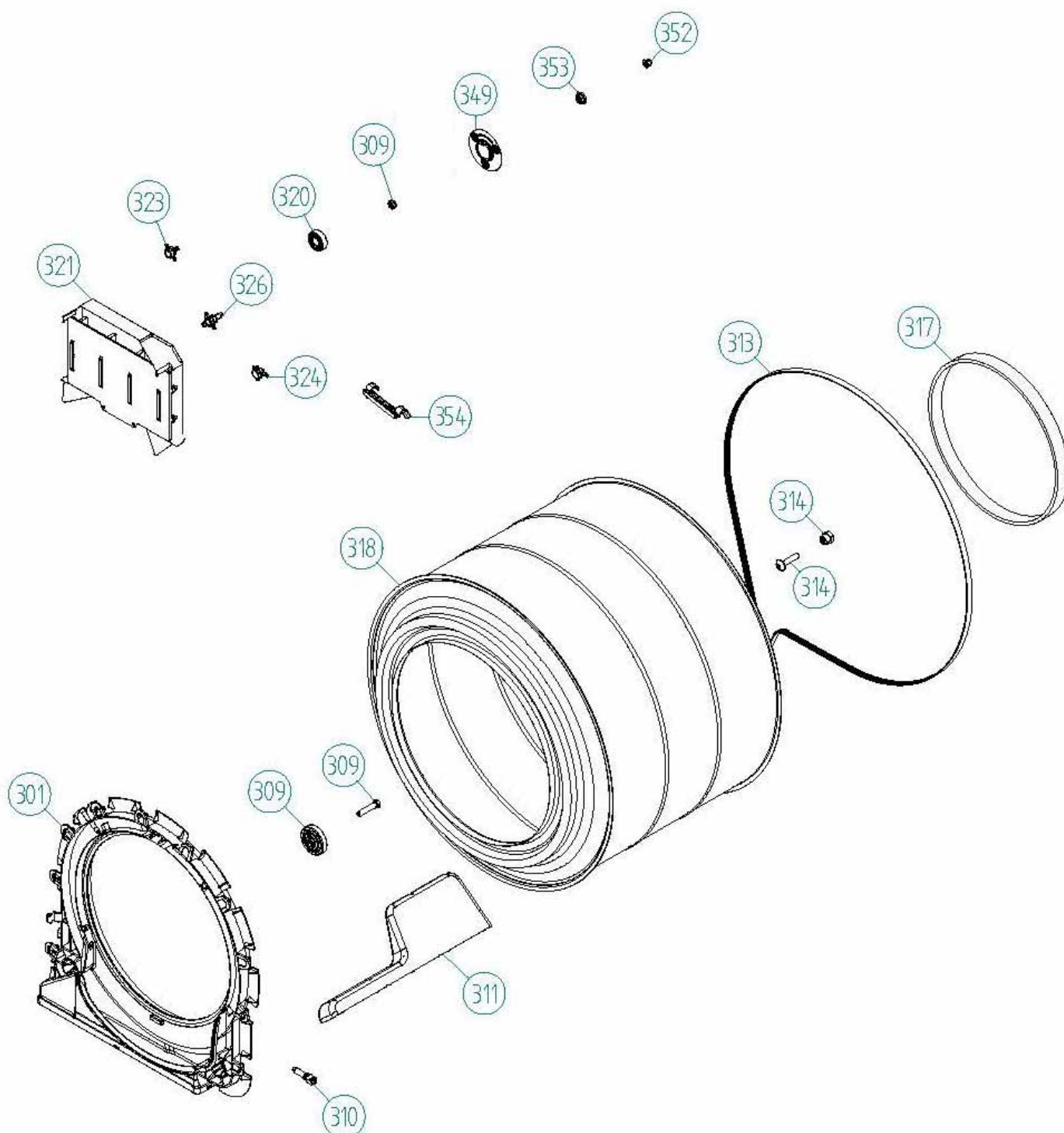
Descr.	Assieme inferiore	Lower assembly
Fig.	2	
Model	GD 6	GDC 6

SERIAL NUMBER H0005202000 → H0005202999



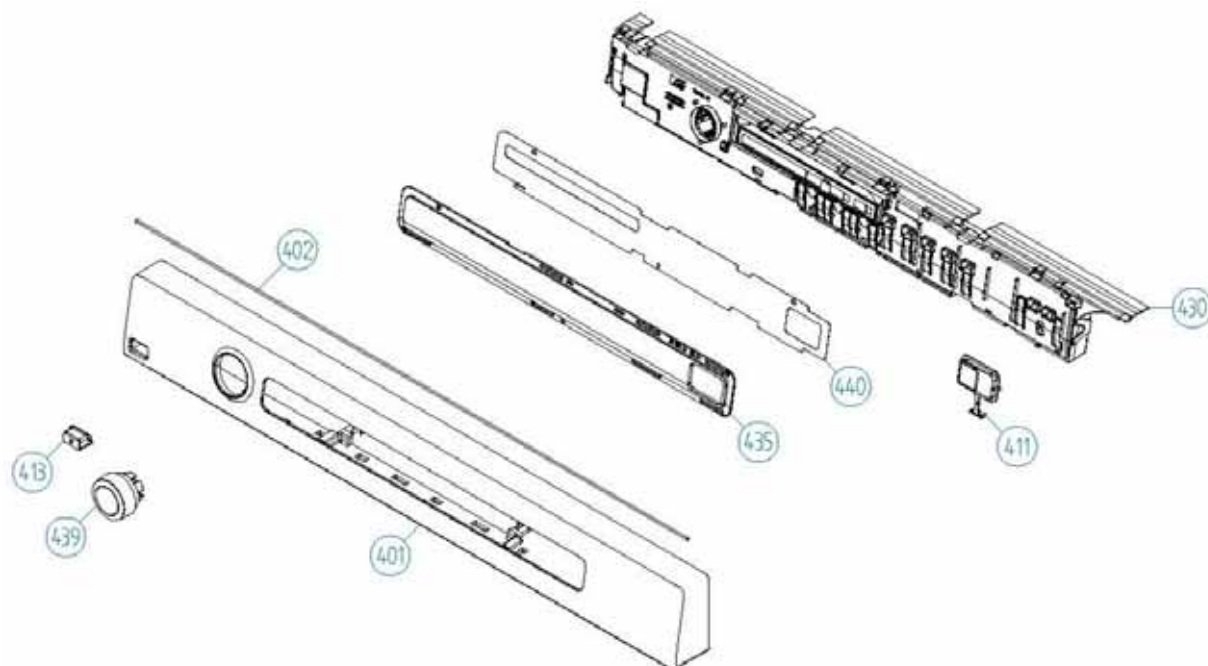
Descr.	Assieme cesto	Drum assembly
Fig.	3	
Model	GD 6	GDC 6

SERIAL NUMBER H0005202000 → H0005202999



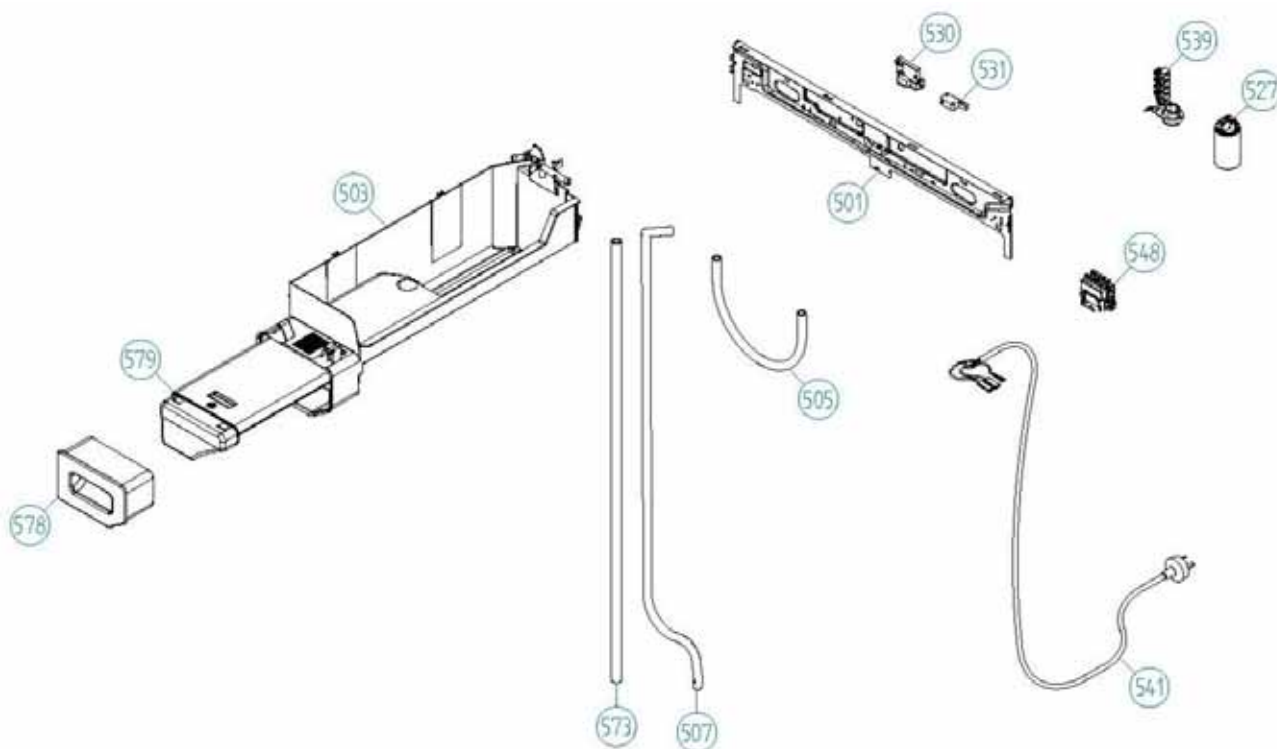
Descr.	Assieme pannello controllo	Control panel assembly
Fig.	4	
Model	GD 6	GDC 6

SERIAL NUMBER H0005202000 → H0005202999



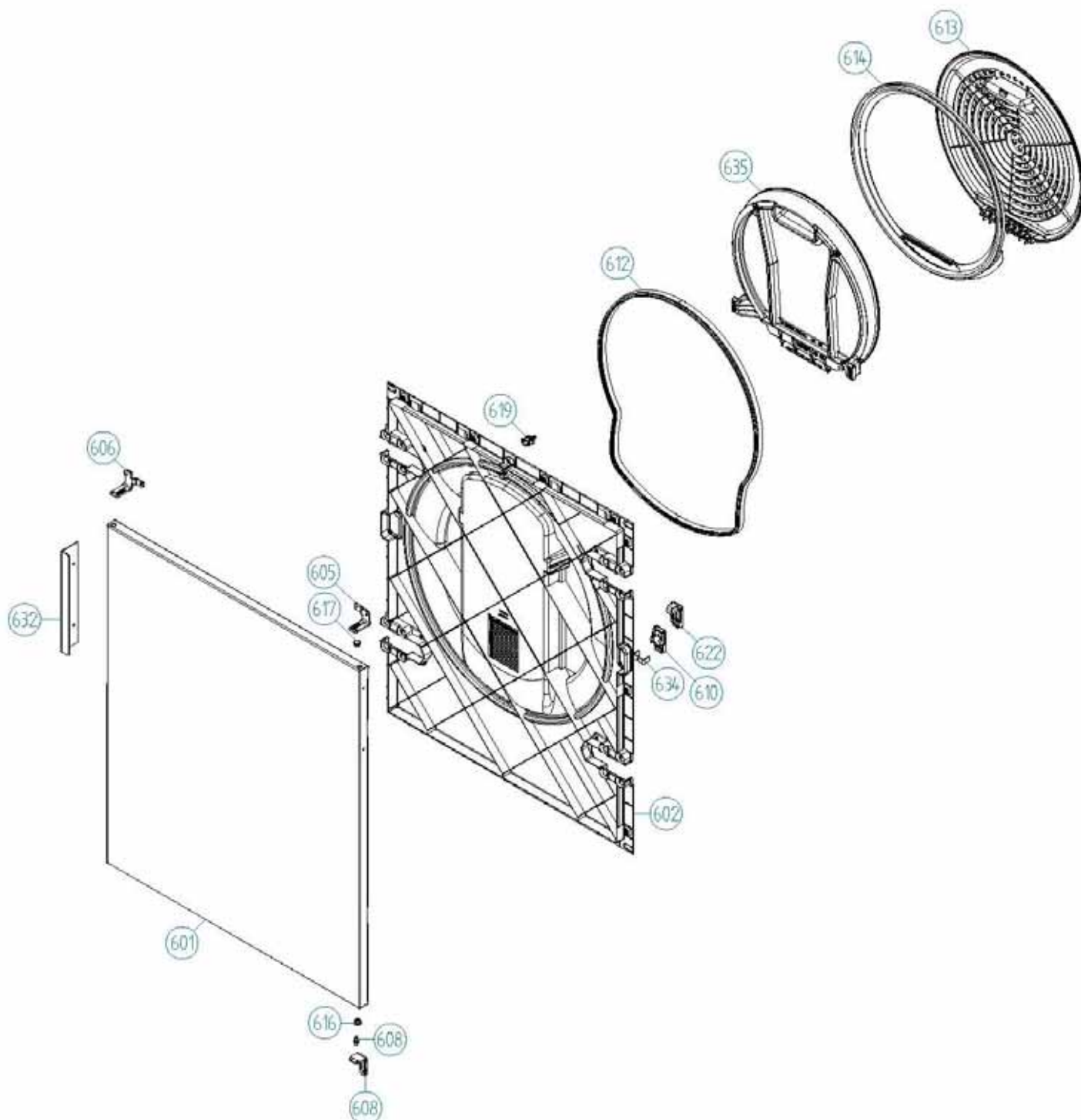
Descr.	Assieme superiore	Upper assembly
Fig.	5	
Model	GD 6	GDC 6

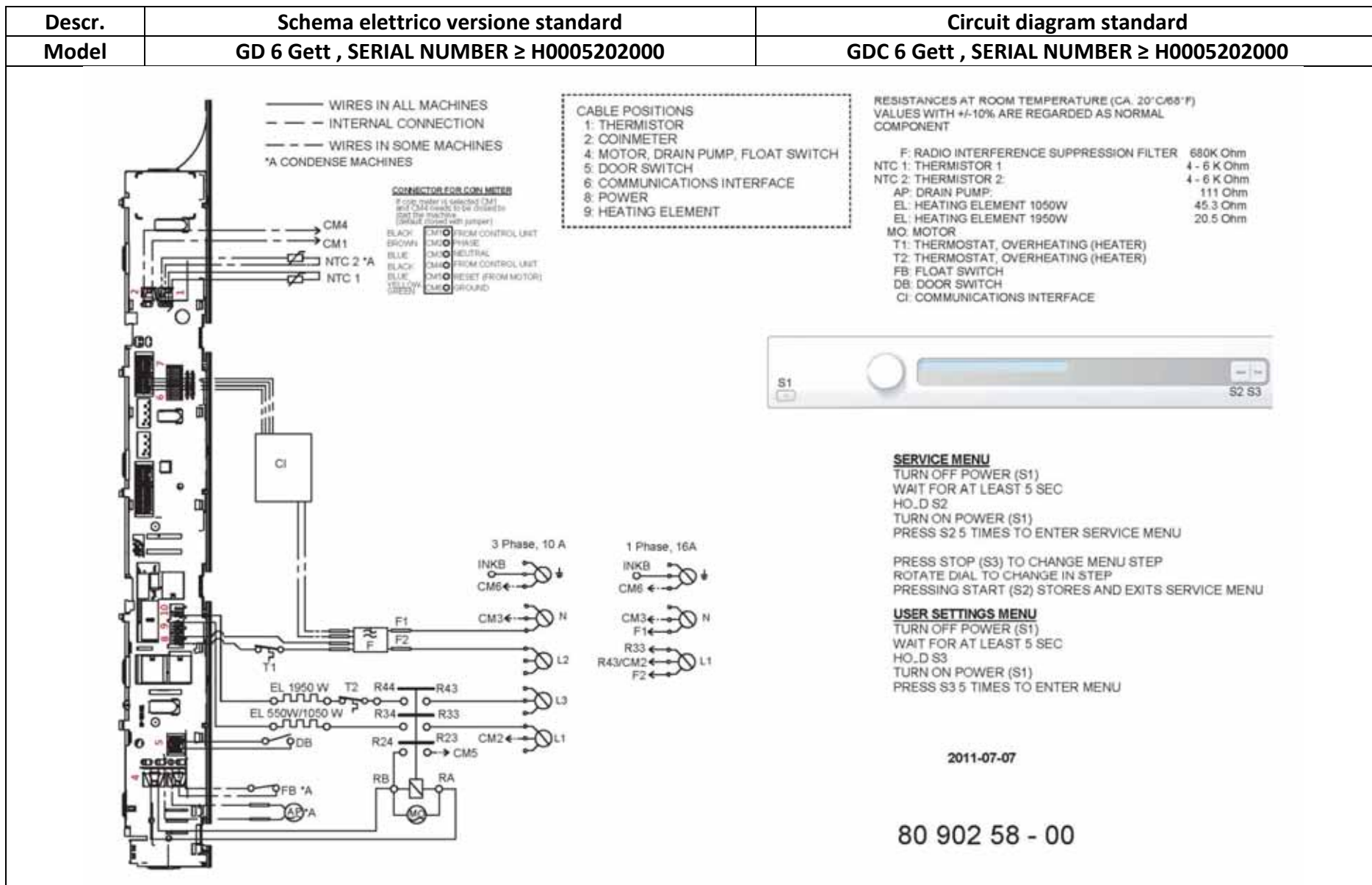
SERIAL NUMBER H0005202000 → H0005202999



Descr.	Assieme porta	Door assembly
Fig.	6	
Model	GD 6	GDC 6

SERIAL NUMBER H0005202000 → H0005202999





Introduction

You are holding the Service manual for the GD6 tumble dryer. The GD6 tumble dryers is available in two models, vented or condensing versions. The GD6 model, that this guide is focusing on, is designed for semi-professional use.

It should be easy to service a tumble dryer. It is important that you, as a service technician, are provided the necessary conditions to work in an efficient and satisfactory manner. Our hope is that this Service manual is a useful tool for your daily work.

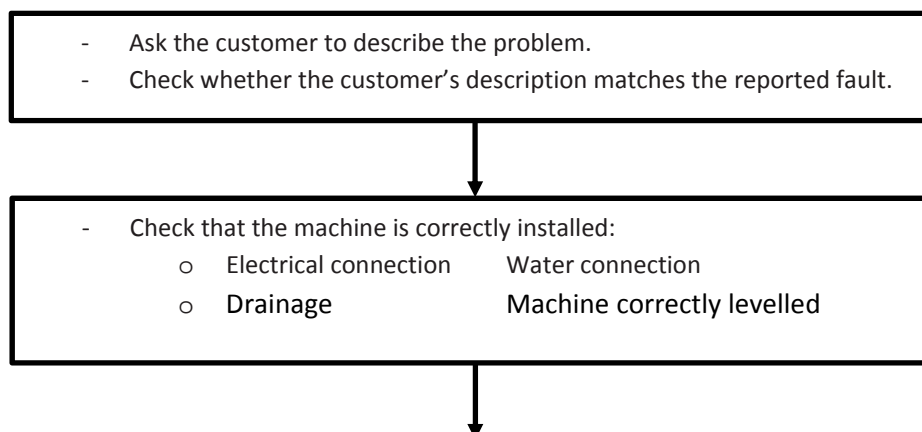
The type designation can be found on the machine plate, which is located on the rear plate of the drier.

OPERATING INSTRUCTIONS

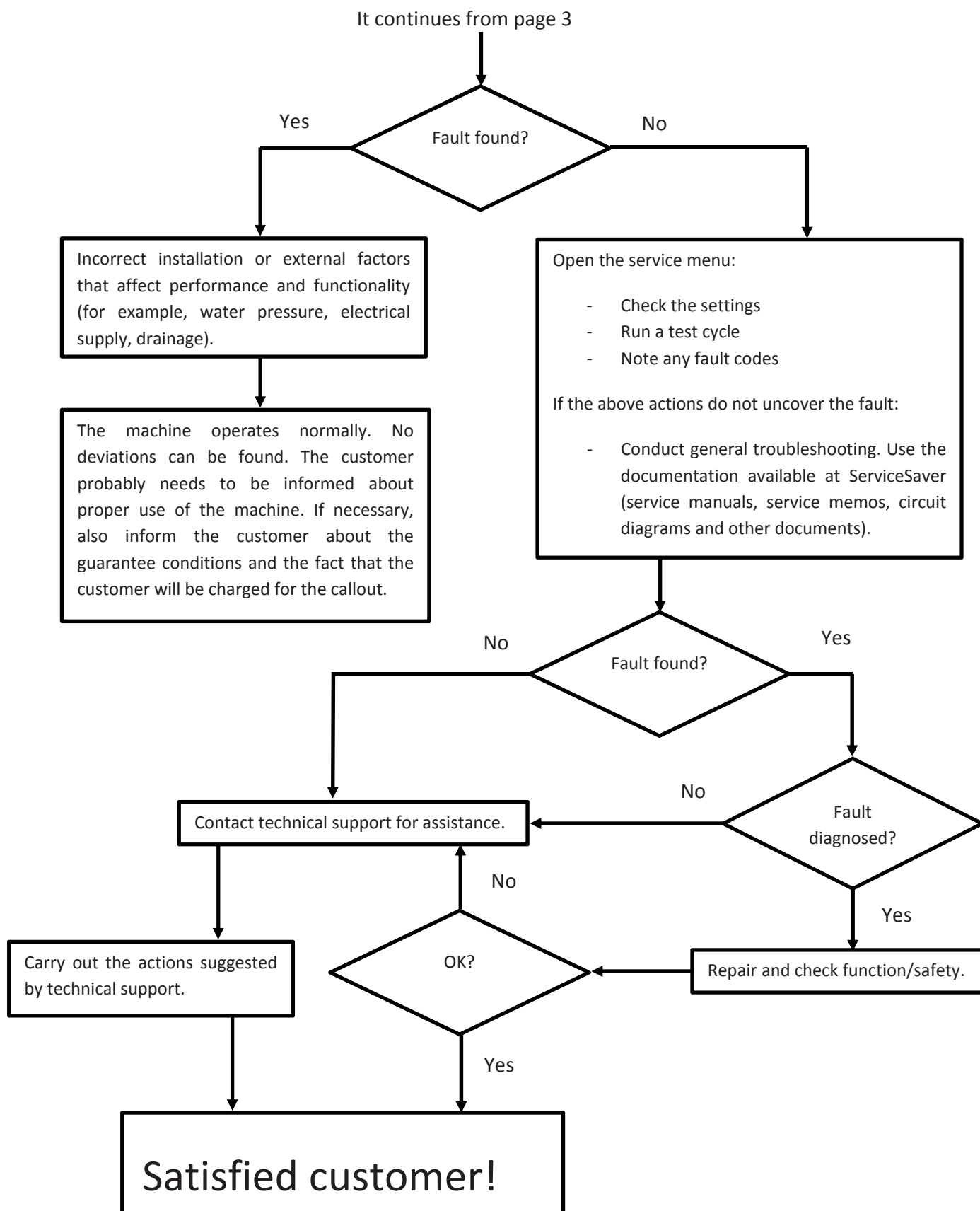
Always have the operating instructions for the machine available during service

Troubleshooting strategy

Troubleshooting is an important part of the service callout, and as such we have drawn up a troubleshooting strategy that describes, in broad terms and step by step, what you need to do to find and diagnose faults arising in our machines.



It continues at page 4



Product overview

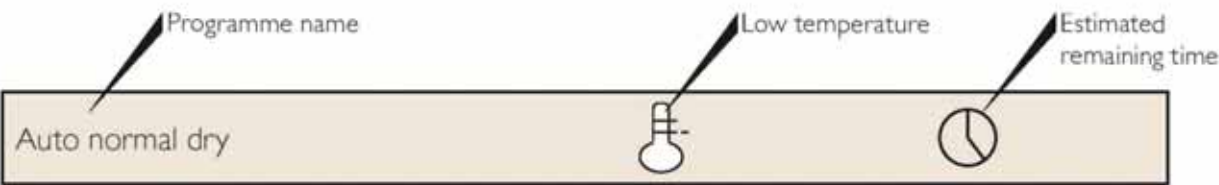


- Programmes: A total of 7 programmes.
- Settings: 4 settings (Language, Child-safe, Buzzer, Heater 2)

Knob and button descriptions

	<p>Programme selector (J1)</p> <p>Turn clockwise or anti-clockwise to cycle through the different programmes and options in the various menus.</p>
	<p>Start button (S2)</p> <ul style="list-style-type: none">• Start programme
	<p>Stop button (S3)</p> <ul style="list-style-type: none">• Stop programme (press and hold for 3 seconds).

LCD description



Programme table

Condenser

Programme	Material	Temperature	Max. load (kg)	Energy consumption (approx. kWh)		Programme time	
				800 rpm	1600 rpm	800 rpm	1600 rpm
Auto extra dry	Cotton, linen	Auto normal dry	7,0	5,5	4,4	2:30	2:04
Auto dry	Cotton, linen	Auto normal dry	7,0	4,5	3,7	2:02	1:47
*Auto normal dry	Cotton, linen	Auto normal dry	7,0	4,4	3,4	2:00	1:34
Auto extra dry, low temperature	Permanent press, polyester/cotton	Low	3,5	2,8	-	2:01	-
Auto dry, low temperature	Permanent press, polyester/cotton	Low	3,5	2,3	-	1:38	-
Auto normal dry, low temperature	Permanent press, polyester/cotton	Low	3,5	2,2	-	1:33	-
Auto iron dry	Cotton, linen	Auto normal dry	7,0	3,7	2,7	2:07	1:37

Vented

Programme	Material	Temperature	Max. load (kg)	Energy consumption (approx. kWh)		Programme time	
				800 rpm	1600 rpm	800 rpm	1600 rpm
Auto extra dry	Cotton, linen	Auto normal dry	7,0	4,4	4,1	2:01	1:55
Auto dry	Cotton, linen	Auto normal dry	7,0	4,1	3,8	1:51	1:45
*Auto normal dry	Cotton, linen	Auto normal dry	7,0	3,5	3,4	1:31	1:30
Auto extra dry, low temperature	Permanent press, polyester/cotton	Low	3,5	2,3	-	1:53	-
Auto dry, low temperature	Permanent press, polyester/cotton	Low	3,5	2,0	-	1:28	-
Auto normal dry, low temperature	Permanent press, polyester/cotton	Low	3,5	1,8	-	1:23	-
Auto iron dry	Cotton, linen	Auto normal dry	7,0	3,1	2,8	1:48	1:45

*Programme tested in accordance with EN 60456/A11/A12/.

Here we present a few examples of the energy and time consumption of a few different programme settings. Consumption can vary depending on room temperature, humidity, load, variations in the power supply and selected options.

The following apply for the specified consumption values:

Temperature of intake air: 23°C

Moisture content of intake air: 55%

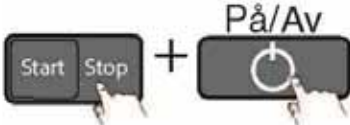

Drying temperature: Normal or low






Heater output: 3000 W

Programme descriptions

Programme designation	Description
Auto extra dry	This programme is for items that are particularly difficult to dry, e.g. jeans with very thick seams.
Auto dry	These programmes shut off the heat once the load is dry but before it is "overly dry". The Auto dry programme shuts off the heat slightly later than Auto normal dry. Use trial and error to find out what works best. Use these programmes when you want items to be completely dry.
Auto normal dry	These programmes shut off the heat once the load is dry but before it is "overly dry". The Auto dry programme shuts off the heat slightly later than Auto normal dry. Use trial and error to find out what works best. Use these programmes when you want items to be completely dry.
Auto extra dry, low temperature	This programme is for items that are particularly difficult to dry, e.g. jeans with very thick seams.
Auto dry, low temperature	These programmes shut off the heat once the load is dry but before it is "overly dry". The Auto dry programme shuts off the heat slightly later than Auto normal dry. Use trial and error to find out what works best. Use these programmes when you want items to be completely dry.
Auto normal dry, low temperature	These programmes shut off the heat once the load is dry but before it is "overly dry". The Auto dry programme shuts off the heat slightly later than Auto normal dry. Use trial and error to find out what works best. Use these programmes when you want items to be completely dry.
Auto iron dry	This programme shuts off the heat once the load is just damp enough for ironing or pressing.

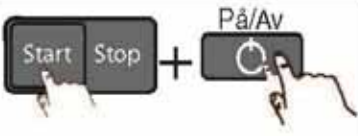

Settings





Opening the settings menu	
	<p>Is the machine on? First turn off the power at the main power switch (S1). Press the Stop button (S3) while simultaneously pressing the main power switch (S1).</p>
	<p>Press the Stop button 5 times within 10 seconds. The settings menu now opens.</p>

Choosing a setting	
1	 <p>Turn the programme selector (J1) to cycle through the menu options.</p>
2	 <p>Press the Stop button (S3) to make a selection.</p>
3	 <p>Turn the programme selector (J1) to cycle through the different settings available for this selection.</p>
4	 <p>Press the Stop button (S3) to save the setting. Turn the programme selector (J1) to make further selections.</p>
5	 <p>Press the Start button (S2) to open the programme menu.</p>

Service menu content		Comments
Language	US English	
	English	
	Svenska	
	Dansk	
	Norsk	
	Suomi	
	Français	
	Deutsch	
	Italiano	
	Espanol	
	Русский	
	Nederlands	
Child-safe	Child-safe Off	You can temporarily disable Child-safe start by pressing "Start" and "Door opening" simultaneously.
	Child-safe On	
Buzzer	Buzzer Off	
	Buzzer On	
Heater 2	Heater 2 Off	
	Heater 2 On	

Service menu

Opening the service menu		
		<p>If the machine is on: First turn off the power at the main power switch (S1).</p> <p>Press and hold the Start button (S2) while simultaneously pressing the main power switch (S1).</p>
		<p>Press the Start button (S2) 5 times within 5 seconds. The service menu now opens (shown on LCD display).</p>

Navigating the service menu		
1		<p>Press the Stop button (S3) to cycle through the service menu options.</p>
2		<p>Turn the programme selector (J1) to cycle through the different settings available for a selection.</p>
3		<p>Press the Stop button (S3) to select a setting.</p>
4	<p>or</p> 	<p>Press the Start button (S2) to save the setting and return to the programme menu.</p> <p>or</p> <p>Press the Stop button (S3) to save the setting and return to the service menu.</p>

Service menu content

SP	SP:	Date the software was programmed (Year_Week)	
	CM:	Date of manufacture of the control unit (Year_Week)	
	SW:	Software version	
	NCP0:	Total number of cycles run	
	NCP1:	Number of cycles for Programme 1	
	NCP2:	Number of cycles for Programme 2	
	NCP3:	Number of cycles for Programme 3	
	NCP4:	Number of cycles for Programme 4	
	NCP5:	Number of cycles for Programme 5	
	NCP6:	Number of cycles for Programme 6	
	NCP7:	Number of cycles for Programme 7	
	Press the Stop button (S3) to continue.		
	Fault	Fault 1	If the machine has a fault the type of fault is displayed.
Fault 2			
Fault 3			
Test	Motor		
	Heater 1		
	Heater 2		
	Drain		
	Buzzer		
	Press the Stop button (S3) to continue.		
Dry level	0	Drying time not extended.	
	+5	Drying time extended by 5 min.	
	+10	Drying time extended by 10 min.	
	+15	Drying time extended by 15 min.	
	+20	Drying time extended by 20 min.	
Block Programs	Auto extra dry	Off	Use the Stop button (S5) to toggle between On and Off.
		On	
	Auto dry	Off	
		On	
	Auto normal dry	Off	
		On	
	Auto extra dry, low temperature	Off	
		On	
	Auto dry, low temperature	Off	
		On	
	Auto normal dry, low temperature	Off	
		On	
	Auto iron dry	Off	
		On	
Coin	Off		
	On		
Filter	Off	Detects whether the filter is blocked.	
	On		

Filter interval	0	Sets the display interval for "Clean Lint Filter". 0 = no display, 1 = display every programme etc.
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
Condenser interval	0	Sets the display interval for "Clean condenser". 0 = no display, 1 = display every 100 programmes etc.
	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
Total Reset		Resets all settings to factory defaults.

Fault indicators

Error message	Cause	Action
Over Flow	<ul style="list-style-type: none"> A micro switch is opened when a full condensed water tank is detected. Detection begins 30 seconds after the programme starts. If the micro switch is open >30 seconds the programme cycle is stopped. 	<ul style="list-style-type: none"> Check that the customer has emptied the tank and restarted the machine. Clean hoses and check voltage and resistance of drainage pump. Check that the float has not got "stuck" and check the function of the micro switch.
Max program time	<ul style="list-style-type: none"> The programme cycle time exceeds 200 minutes. The cycle is stopped and the programme is reset. High ambient temperature combined with low heater output and low drying temperature causes condensation to form. Poor condensing due to blocked external air. 	<ul style="list-style-type: none"> Tried spinning at a higher speed. Had the machine switched off for 30 minutes before restarting. Good ventilation in the room. Ensure that the external air has free passage.
Clean filter	<ul style="list-style-type: none"> Indicated when the air flow and temperature do not match. 	<ul style="list-style-type: none"> Clean the filter.
Clean condenser	<ul style="list-style-type: none"> Displayed automatically every 100 cycles. Displayed if the machine has indicated "Clean filter" twice in a row. 	<ul style="list-style-type: none"> Clean condenser and filter. Clean other air passages.
Thermistor fault	<ul style="list-style-type: none"> Thermistor circuit open. Thermistor malfunction. 	<ul style="list-style-type: none"> Check the thermistor.

Components and measurement values

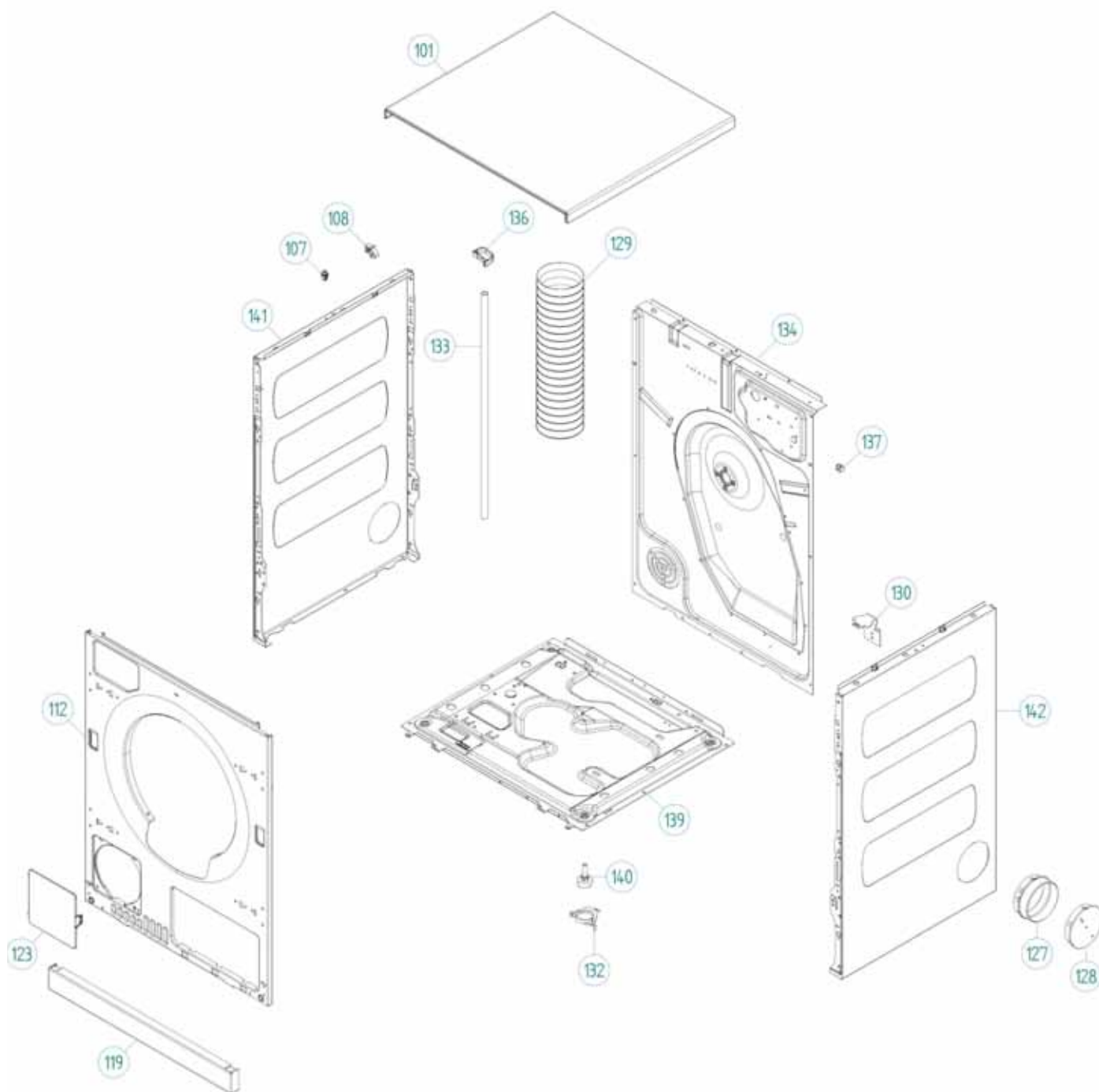
Item number	Component	Measurement value	Comment
80 618 24	Motor 50 Hz, 220/240 V	Primary winding: 23.8 Ω Auxiliary winding: 28.1 Ω Current: 1.1 A; 270 W; 2850 rpm	
80 618 95	Motor 60 Hz, 220/240 V	Winding resistance: cable colour grey-blue 25.5 Ω cable colour grey-red 16.0 Ω Current: 0.9 A; 200 W; 3300 rpm	The motor is a 2-pin motor and is directly connected to the fan for internal air and gearing for driving the cylinder. On condenser dryers, the motor also drives the fan for external air.
73 829 92	Capacitor 6 μ F		The capacitor is mounted on the motor.
80 546 40	Capacitor 4 μ F		
88 011 94	Condensing water pump 25 W	111 Ω	
80 762 02 80 844 11	EMC filter		The filter eliminates interference to and from the machine.
80 833 44	Thermistor	40–60 k Ω (at room temperature 20–30°C)	The thermistor controls temperature regulation. If the thermistor is short-circuited or detaches from the control unit, the programme is stopped.
80 773 85 80 796 00	Thermostat/overheating cut-out (150°C automatic) Thermostat/overheating cut-out (135°C automatic)		The thermostat/overheating cut-out stops the programme if the temperature becomes too high.
80 738 36	Door switch		The front door triggers a door switch, which stops the programme when the door is open. If the door has been opened and closed during the programme the machine must be restarted using the start/stop button.
80 761 03	Overflow cut-out		If both tanks are full the programme is stopped by a float switch installed in the lower tank. Over flow is indicated on the display.
	Electrical connection		The machine is delivered as single phase and can be switched between 1950 W, 10 A and 2500 W, 16 A. The buttons are used to switch between 1950 W / 10 A and 2500 W / 16 A via the software.
8080604	Control unit		
80 832 20	Heating element 2500 W	Heater 1: 1950 W, 24.5 Ω Heater 2: 550 W, 91.4 Ω	
80 829 32	Heating Element 3000W	Heater 1: 1950 W, 24.5 Ω Heater 2: 1050 W, 45.3 Ω	

Technical data

Height:	850 mm
Width:	595 mm
Depth:	585 mm
Weight:	39 kg (vented) 47 kg (condenser)
Cylinder volume:	111 l
Max. load capacity:	EU 7.0 kg US/AU 6.0 kg
Speed:	52 rpm
Rated power:	1950 W = 10 A 2500 W = 16 A 3000 W = 16 A The buttons are used to switch between 10 A and 16 A via the software.
Drum material:	Stainless steel
Outer panels:	Powder-coated and hot-galvanised sheet steel or stainless steel
Installation:	Stacked or freestanding
Protection class:	IP X4

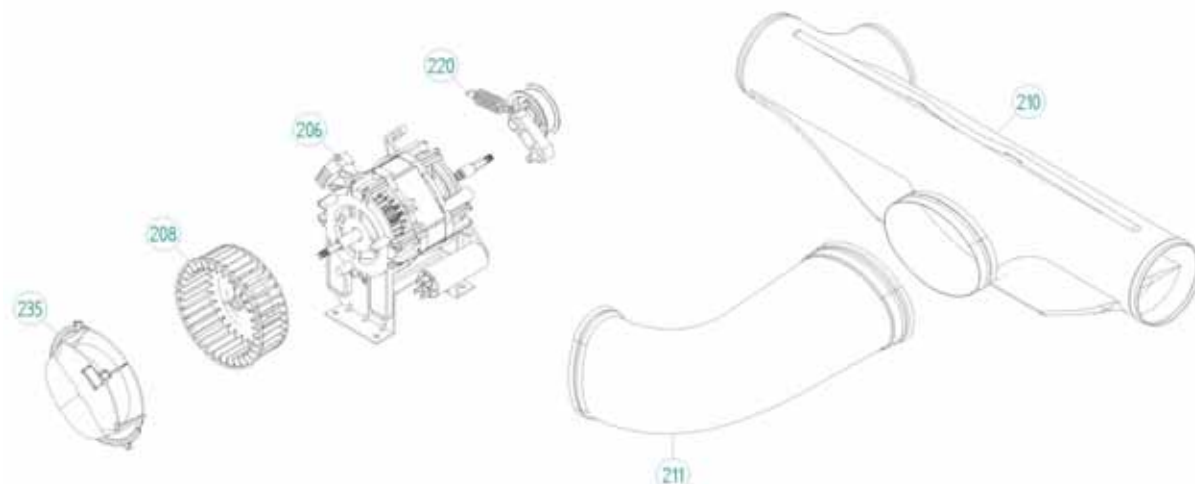
Descr.	Pannellatura	Cabinet
Fig.	1	
Model	GD 6	GDC 6

SERIAL NUMBER ≤ H0005201999



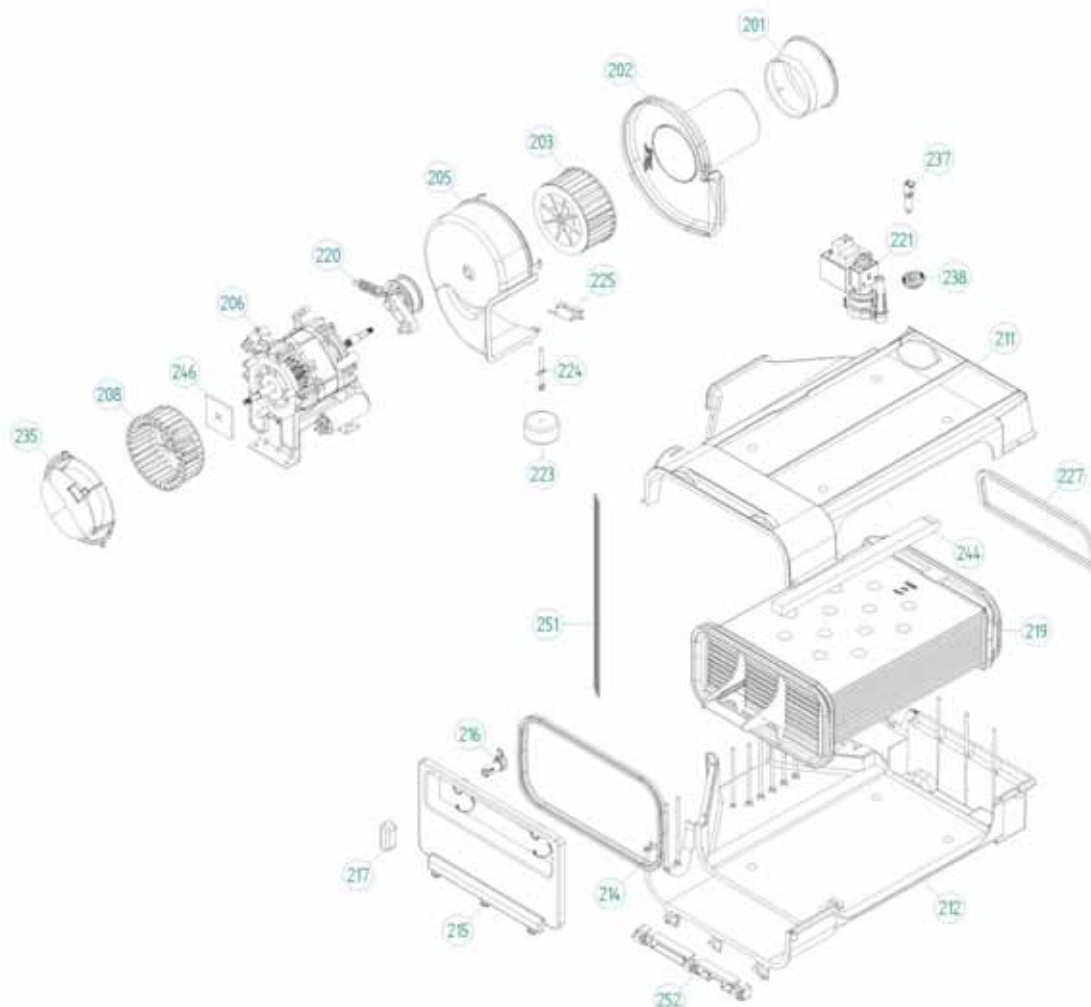
Descr.	Assieme inferiore	Lower assembly
Fig.	2	
Model	GD 6	

SERIAL NUMBER ≤ H0005201999



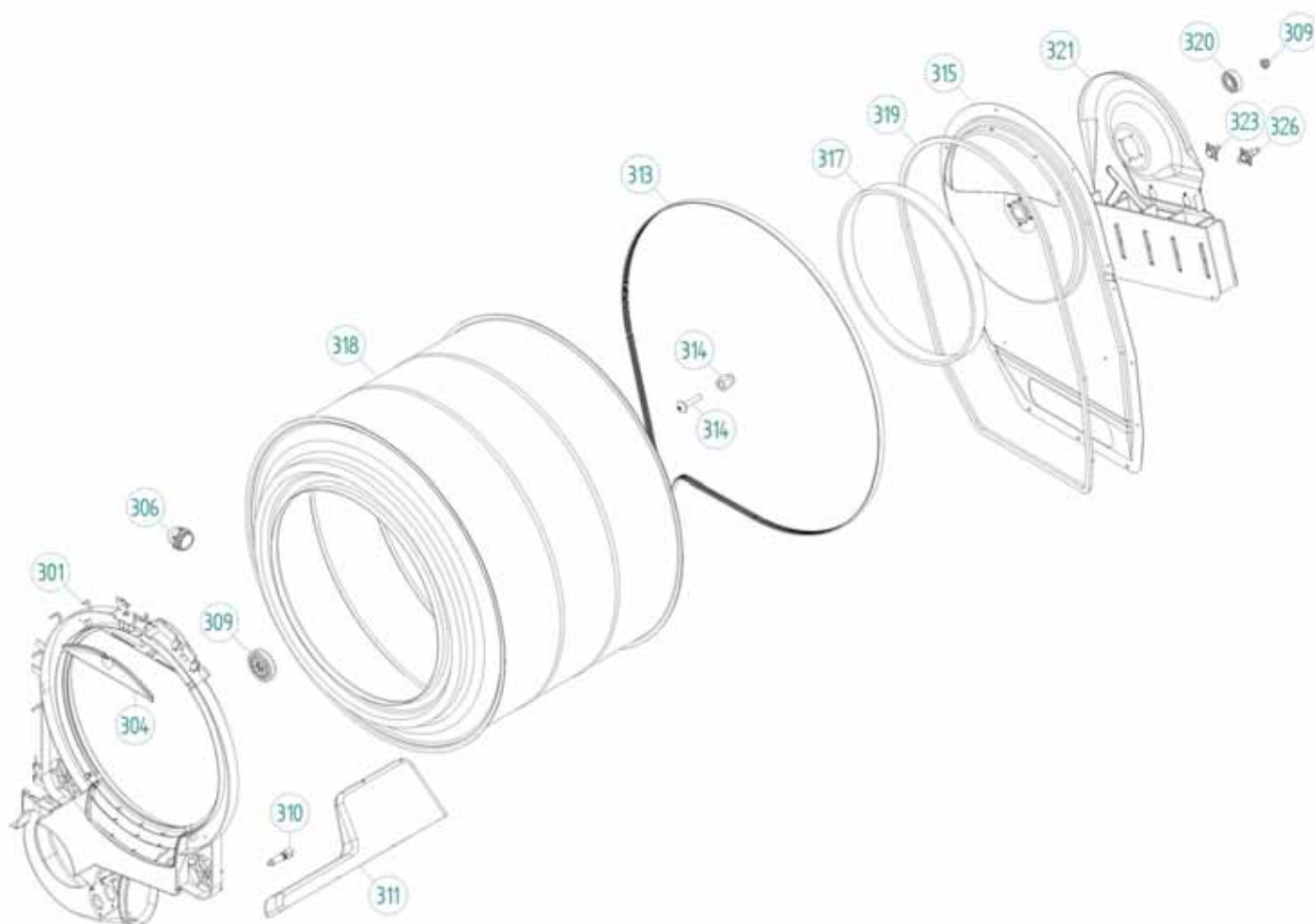
Model	GDC 6
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SERIAL NUMBER ≤ H0005201999



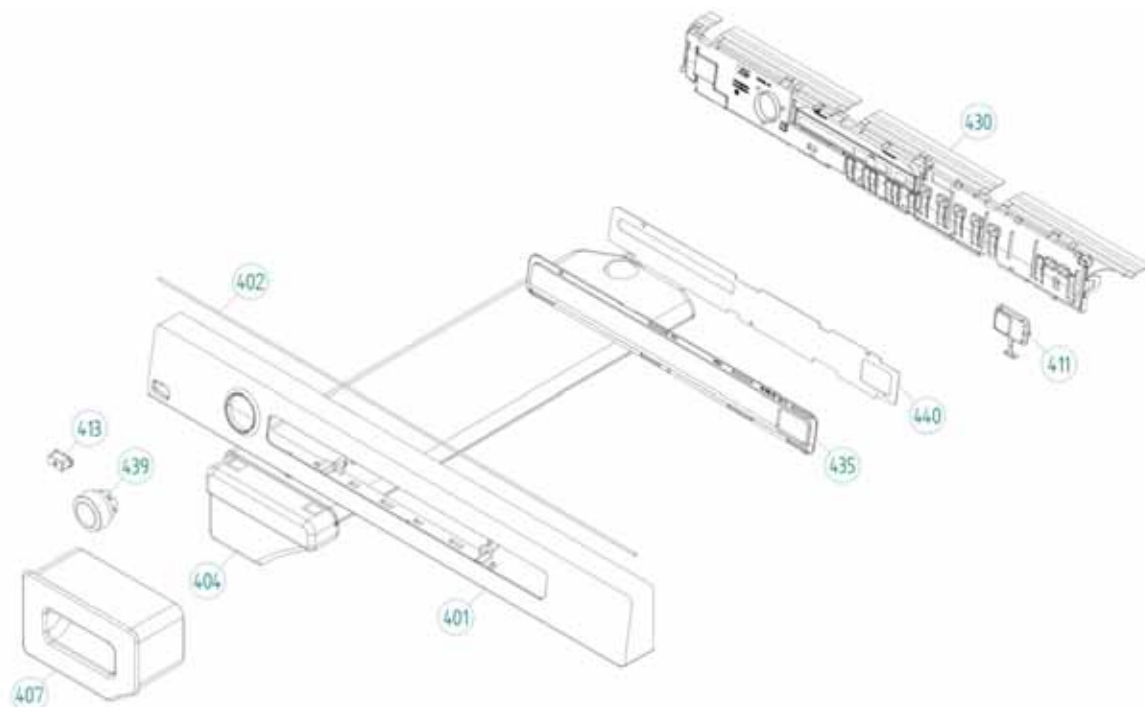
Descr.	Assieme cesto	Drum assembly
Fig.	3	
Model	GD 6	GDC 6

SERIAL NUMBER ≤ H0005201999



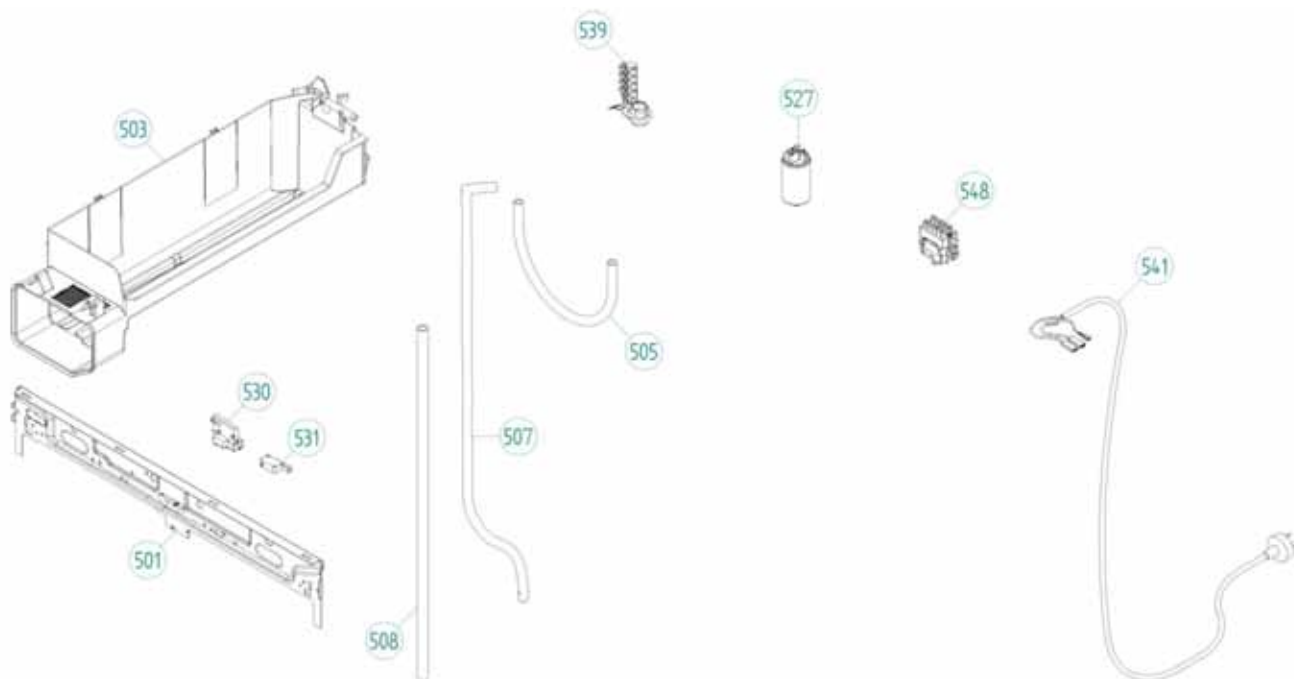
Descr.	Assieme pannello controllo	Control panel assembly
Fig.	4	
Model	GD 6	GDC 6

SERIAL NUMBER ≤ H0005201999



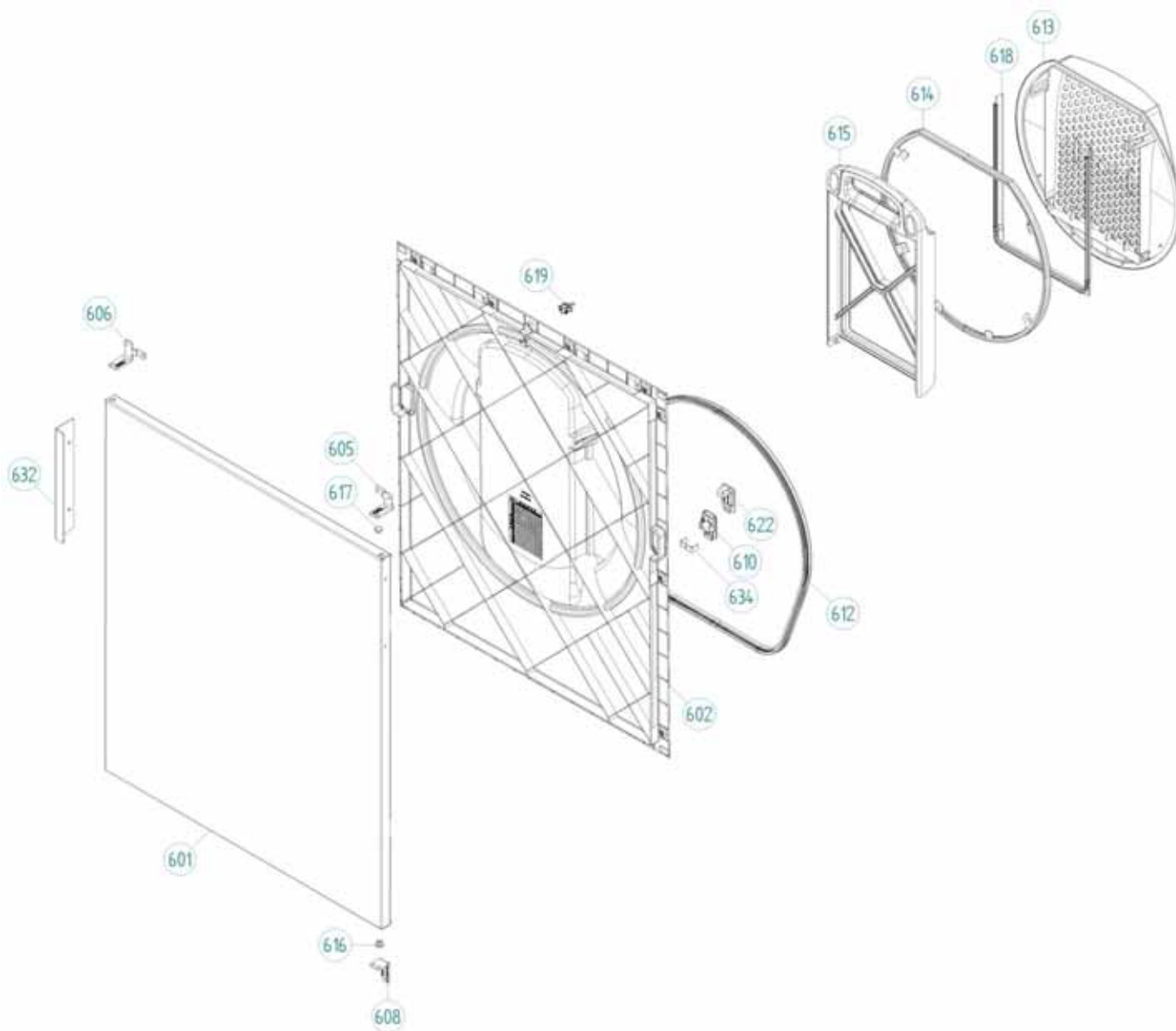
Descr.	Assieme superiore	Upper assembly
Fig.	5	
Model	GD 6	GDC 6

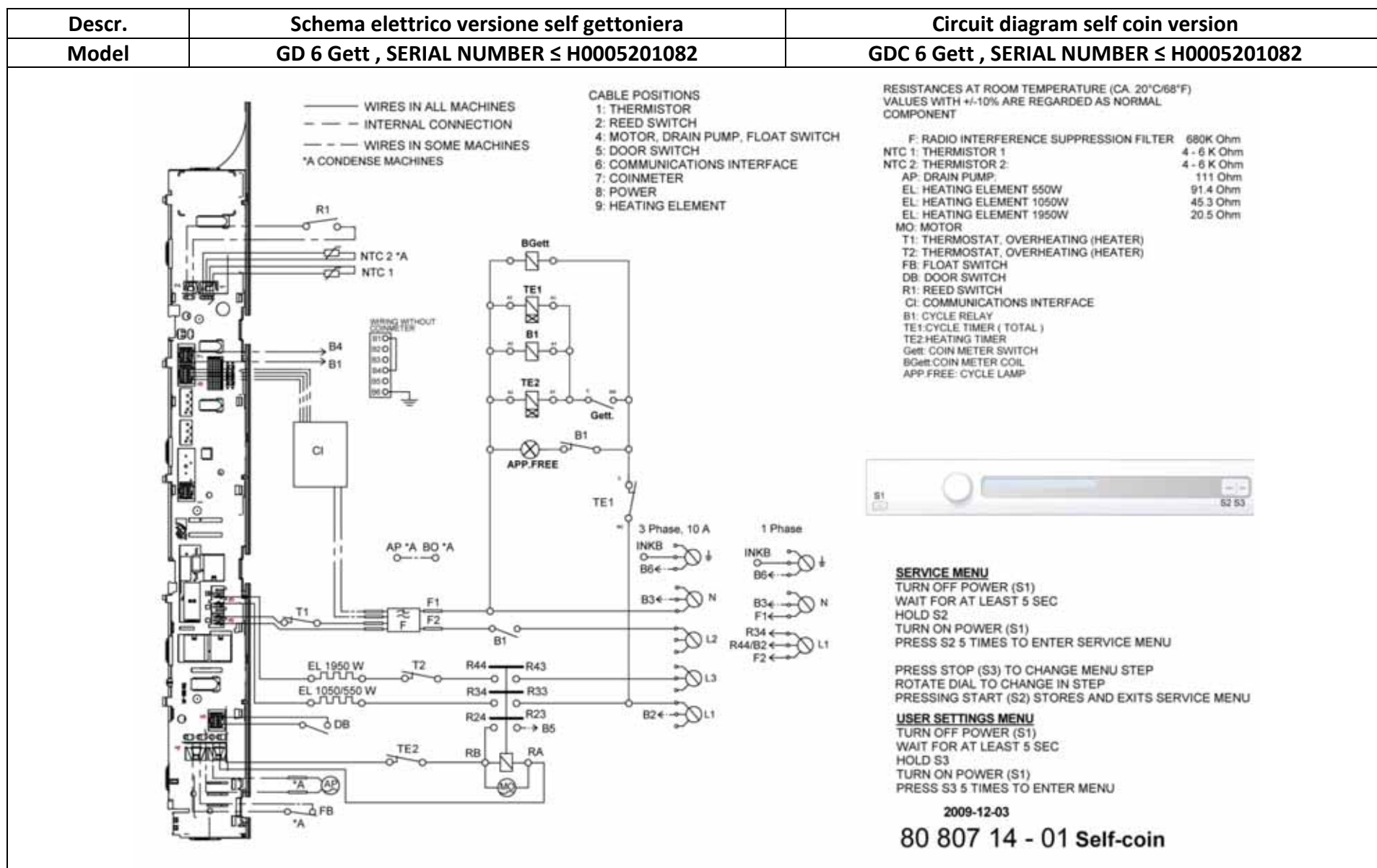
SERIAL NUMBER ≤ H0005201999



Descr.	Assieme porta	Door assembly
Fig.	6	
Model	GD 6	GDC 6

SERIAL NUMBER ≤ H0005201999





Descr.	Schema elettrico versione self gettoniera	Circuit diagram self coin version
Model	GD 6 Gett , SERIAL NUMBER H0005201083 → H0005201999	GDC 6 Gett , SERIAL NUMBER H0005201083 → H0005201999

— WIRES IN ALL MACHINES
 - - - INTERNAL CONNECTION
 - - - WIRES IN SOME MACHINES
 *A CONDENSE MACHINES

CABLE POSITIONS

- 1: THERMISTOR
- 2: REED SWITCH
- 4: MOTOR, DRAIN PUMP, FLOAT SWITCH
- 5: DOOR SWITCH
- 6: COMMUNICATIONS INTERFACE
- 7: COINMETER
- 8: POWER
- 9: HEATING ELEMENT

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

F: RADIO INTERFERENCE SUPPRESSION FILTER	680K Ohm
NTC 1: THERMISTOR 1	4 - 6 K Ohm
NTC 2: THERMISTOR 2	4 - 6 K Ohm
AP: DRAIN PUMP	111 Ohm
EL: HEATING ELEMENT 550W	91.4 Ohm
EL: HEATING ELEMENT 1050W	45.3 Ohm
EL: HEATING ELEMENT 1950W	20.5 Ohm

MO: MOTOR
 T1: THERMOSTAT, OVERHEATING (HEATER)
 T2: THERMOSTAT, OVERHEATING (HEATER)
 FB: FLOAT SWITCH
 DB: DOOR SWITCH
 R1: REED SWITCH
 CI: COMMUNICATIONS INTERFACE
 K1A: CYCLE CONTACTOR
 K2A: COOL DOWN CONTACTOR
 K1T: HEATING TIMER
 K2T: COOL DOWN TIMER
 K3T: TIMER RESET COIN
 Gett: COIN METER SWITCH
 HL1: CYCLE LAMP

3 Phase, 10 A
 INKB
 B6
 B3
 F1
 R34
 R44/B2
 F2

1 Phase
 INKB
 B6
 B3
 F1
 R34
 R44/B2
 F2

SERVICE MENU
 TURN OFF POWER (S1)
 WAIT FOR AT LEAST 5 SEC
 HOLD S2
 TURN ON POWER (S1)
 PRESS S2 5 TIMES TO ENTER SERVICE MENU

 PRESS STOP (S3) TO CHANGE MENU STEP
 ROTATE DIAL TO CHANGE IN STEP
 PRESSING START (S2) STORES AND EXITS SERVICE MENU

USER SETTINGS MENU
 TURN OFF POWER (S1)
 WAIT FOR AT LEAST 5 SEC
 HOLD S3
 TURN ON POWER (S1)
 PRESS S3 5 TIMES TO ENTER MENU

Setp 2012

80 807 14 - 02 Self-coin



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