

Installation manual

Tumble dryer

TD7–11
Type N1...



Electrolux
PROFESSIONAL

Contents

Contents

1	Safety Precautions	5
1.1	General information	6
1.2	Commercial use only	6
1.3	Copyright	6
1.4	Symbols	7
2	Warranty terms and exclusions	8
3	Technical data	9
3.1	Drawing	9
3.2	Technical data	10
3.3	Connections	10
3.3.1	Heat pump	10
3.3.2	Fluorinated greenhouse gases	10
4	Setup	11
4.1	General	11
4.2	Unpacking	11
4.3	Recycling instruction for packaging	13
4.4	Wheels	14
4.5	Siting	14
4.6	Drain connection	15
4.7	Mechanical installation	16
5	Evacuation system	17
5.1	Air principle	17
5.1.1	Ventilating the room	18
6	Electrical connection	19
6.1	Electrical installation	19
6.2	Single-phase connection	20
6.3	Three-phase connection	21
6.4	Electrical connections	22
6.5	Functions for I/O-boards	23
6.5.1	Enable start	23
6.5.2	Remote start/stop	24
6.5.3	External coin meter/Central payment	25
6.5.4	Free start	26
6.6	Option	27
6.6.1	External connection 100 mA	27
7	Reversing the door	28
8	Function check	40
8.1	Check the automatic stop of the machine	40
8.2	Check the heat	40
8.3	Ready to use	40
9	Disposal information	41
9.1	Appliance recyclability and disposal	41
9.1.1	Recyclability	41
9.1.2	Procedure regarding appliance disposal and component / material recovery	41
9.2	Disposal of packing	41

The manufacturer reserves the right to make changes to design and component specifications.

1 Safety Precautions

- Servicing shall be carried out only by authorized personnel.
- Only authorized spare parts, accessories and consumables shall be used.
- The machine is not to be used if industrial chemicals have been used for cleaning.
- Do not dry unwashed items in the machine.
- **WARNING:** Items that have been soiled with substances such as hair care products, cooking oil, acetone, alcohol, petrol, kerosene, spot removers, turpentine, waxes and wax removers shall be cleaned sufficiently to remove the contaminant before being tumble dried. When washing such soiled items ensure the use of detergent as specified by the detergent manufacturer and select the highest suitable temperature. If in doubt, wash the items several times.
- Items such as foam rubber (latex foam), shower caps, waterproof textiles, rubber backed articles and clothes or pillows fitted with foam rubber pads should not be dried in the machine.
- Fabric softeners or similar products should be used as specified by the fabric softener instructions.
- The final part of a drying cycle occurs without heat (cool down cycle) to ensure that the items are left at a temperature that ensures that the items will not be damaged.
- Remove all objects from pockets such as lighters and matches.
- **WARNING.** Never stop the machine before the end of the drying cycle unless all items are quickly removed and spread out so that the heat is dissipated.
- Adequate ventilation has to be provided to avoid the back flow of gases into the room for appliances burning other fuels, including open fires.
- Exhaust air must not be discharged into a flue which is used for exhausting fumes from appliances burning gas or other fuels.
- The machine must not be installed behind a lockable door, a sliding door or a door with a hinge on the opposite side to that of the machine in such a way that a full opening of the machine is restricted.
- If the machine has a lint trap this has to be cleaned frequently.
- The lint must not be accumulated around the machine.
- **DO NOT MODIFY THIS APPLIANCE.**
- When performing service or replacing parts, the power must be disconnected.
- When the power is disconnected, the operator must see that the machine is disconnected (that the plug is removed and remains removed) from any point to which he has access. If this is not possible, due to the construction or installation of the machine, a disconnection with a locking system in the isolated position shall be provided.
- In accordance with the wiring rules: mount a multi-pole switch prior to the machine to facilitate installation and service operations.
- **WARNING:** The appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by a utility.
- If different rated voltages or different rated frequencies (separated by a /) are stated at the machine data plate, instructions for adjusting the appliance for operation at the required rated voltage or rated frequency are stated in the installation manual.
- Stationary appliances not fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under

overvoltage category III, means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.

- The openings in the base, shall not be obstructed by a carpet.
- Oil-affected items can ignite spontaneously, especially when exposed to heat sources such as in a tumble dryer. The items become warm, causing an oxidation reaction in the oil. Oxidation creates heat. If the heat cannot escape, the items can become hot enough to catch fire. Piling, stacking or storing oil-affected items can prevent heat from escaping and so create a fire hazard.
- Maximum mass of dry cloth: 11.0 kg.
- A-weighted emission sound pressure level at working stations: 70 dB(A).
- Additional requirements for the following countries; AT, BE, BG, HR, CY, CZ, DK, EE, FI, FR, DE, GR, HU, IS, IE, IT, LV, LT, LU, MT, NL, NO, PL, PT, RO, SK, SI, ES, SE, CH, TR, UK:
 - The appliance can be used in public areas.
 - This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
 - Children of less than 3 years should be kept away unless continuously supervised.
- Additional requirements for other countries:
 - This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

1.1 General information

Conditions for storage and transportation of the appliance should fulfil a temperature between -20°C / + 70°C and max Humidity of 95% RH.

In order to prevent damage to the electronics (and other parts) that may occur as the result of condensation, the machine should be placed in room temperature for 24 hours before being used for the first time.

Electric power supply should follow:

- Max range for each country rated voltage: -15% / +10%.
- Max range for each country rated frequency: ± 3 Hz.
- Dips/Interruption: 5 Dips/day (100% voltage lost, with 3-4 minutes duration).

A stable power supply is always the best. Fluctuations gives stress and additional load on all electric and electronic components.

1.2 Commercial use only

The machine/machines covered by this manual is/are made for commercial and industrial use only.

1.3 Copyright

This manual is intended solely for consultation by the operator and can only be given to third parties with the permission of Electrolux Professional AB.

1.4 Symbols

	Caution
	Caution, hot surface
	Caution, high voltage
	Warning, risk of fire / flammable material
	Danger, crush hazard
	Read the instructions before using the machine

2 Warranty terms and exclusions

If the purchase of this product includes warranty coverage, warranty is provided in line with local regulations and subject to the product being installed and used for the purposes as designed, and as described within the appropriate equipment documentation.

Warranty will be applicable where the customer has used only genuine spare parts and has performed maintenance in accordance with Electrolux Professional AB user and maintenance documentation made available in paper or electronic format.

Electrolux Professional AB strongly recommends using Electrolux Professional AB approved cleaning, rinse and descaling agents to obtain optimal results and maintain product efficiency over time.

The Electrolux Professional AB warranty does not cover:

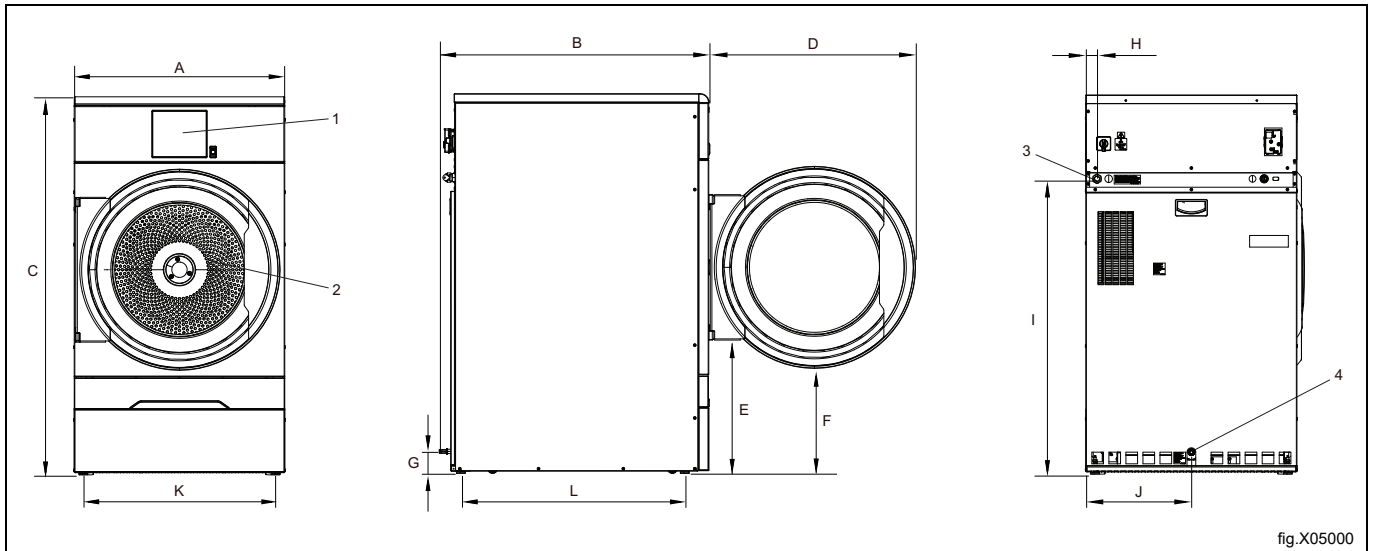
- service trips cost to deliver and pick up the product;
- installation;
- training on how to use/operate;
- replacement (and/or supply) of wear and tear parts unless resulting from defects in materials or workmanship reported within one (1) week from the failure;
- correction of external wiring;
- correction of unauthorized repairs as well as any damages, failures and inefficiencies caused by and/or resulting from;
 - insufficient and/or abnormal capacity of the electrical systems (current/voltage/frequency, including spikes and/or outages);
 - inadequate or interrupted water supply, steam, air, gas (including impurities and/or other that does not comply with the technical requirements for each appliance);
 - plumbing parts, components or consumable cleaning products that are not approved by the manufacturer;
 - customer's negligence, misuse, abuse and/or non-compliance with the use and care instructions detailed within the appropriate equipment documentation;
 - improper or poor: installation, repair, maintenance (including tampering, modifications and repairs carried out by third parties not authorized third parties) and modification of safety systems;
 - Use of non-original components (e.g.: consumables, wear and tear, or spare parts);
 - environment conditions provoking thermal (e.g. overheating/freezing) or chemical (e.g. corrosion/oxidation) stress;
 - foreign objects placed in- or connected to- the product;
 - accidents or force majeure;
 - transportation and handling, including scratches, dents, chips, and/or other damage to the finish of the product, unless such damage results from defects in materials or workmanship and is reported within one (1) week of delivery unless otherwise agreed;
- product with original serial numbers that have been removed, altered or cannot be readily determined;
- replacement of light bulbs, filters or any consumable parts;
- any accessories and software not approved or specified by Electrolux Professional AB.

Warranty does not include scheduled maintenance activities (including the parts required for it) or the supply of cleaning agents unless specifically covered within any local agreement, subject to local terms and conditions.

Check on Electrolux Professional AB website the list of authorized customer care.

3 Technical data

3.1 Drawing



1	Display
2	Door opening, $\varnothing$ 518 mm
3	Electrical connection
4	Drain for condense water

	A	B	C	D	E	F
mm	730	910	1300	710	458	360

	G	H	I	J	K	L
mm	75	40	1015	360	660	770

3.2 Technical data

Weight, net	kg	170
Drum volume	liters	200
Drum diameter	mm	682
Drum depth	mm	606
Drum speed, medium load	rpm	55
Rated capacity, filling factor 1:18 (Max. load)	kg	11.0
Rated capacity, filling factor 1:22 (Recommended load)	kg	9.0
Sound power/pressure level at drying*	dB(A)	72.2 / 57
Average heat emission per drying cycle used to assess ventilation need**	kW	2.0
Ambient operating temperature	°C	+10 – +45

* Sound power levels measured according to ISO 60704.

** For assistance with dimensioning necessary ventilation needs, contact authorized ventilation technician. For sufficient ventilation all sources introducing heat need to be taken into account plus all other parameters effecting the ventilation need. Climate zone, building parameters, room size, etc.

3.3 Connections

Pipe connection, condensed water	ø mm	15
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3.3.1 Heat pump

Type of refrigerant		R513a
Amount of refrigerant	g	~500

3.3.2 Fluorinated greenhouse gases

This product contains fluorinated greenhouse gases:

R513a: ~500 g

GWP 573

CO₂ equivalent 0.2865 t

Hermetically sealed

4 Setup

4.1 General

The principle work flow to setup or install this machine is as follows:

1. Unpacking
2. Positioning/siting, levelling or/and securing the machine.
3. Correcting the fresh air to compensate the heat emission of machine(s) and connect the drain(s).
4. Electric connections, connect the power supply to the machine.
5. Function check.
6. Option functions check.

More details are described in each part of this installation manual.

4.2 Unpacking

Note!

The machine must not be laid down or tilted more than 45°. If so, this might damage the heat pump.

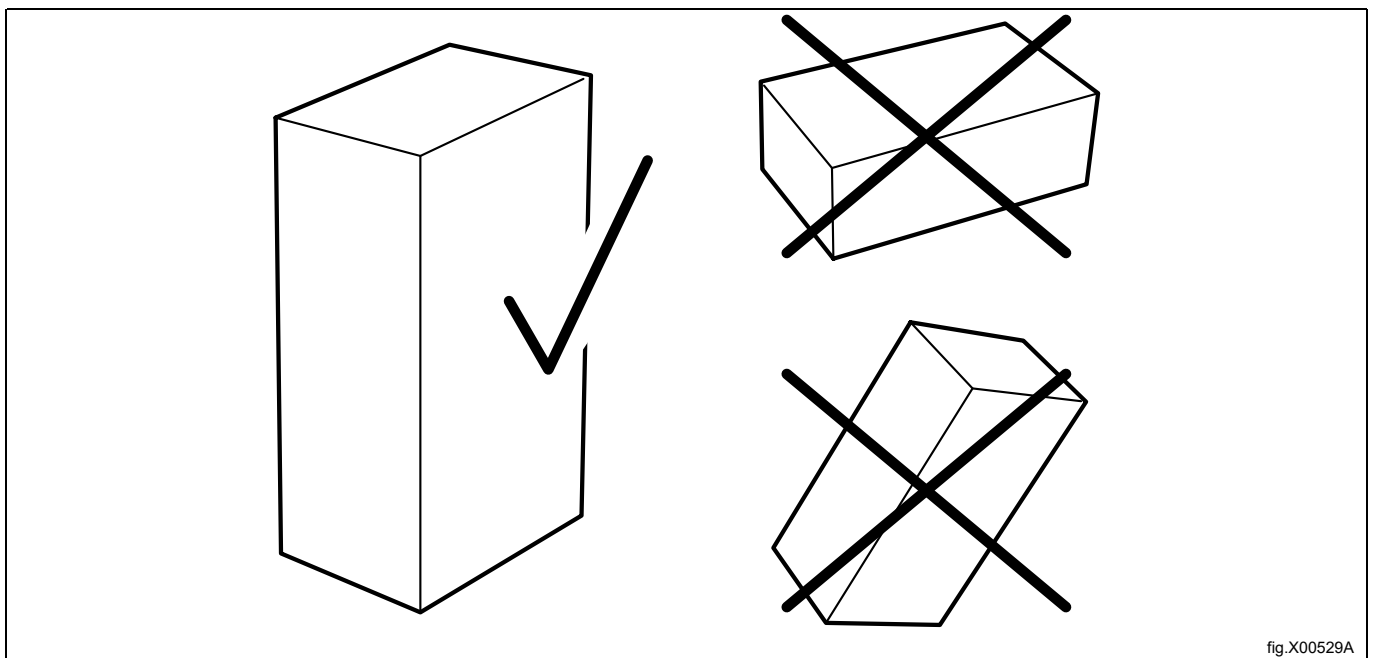
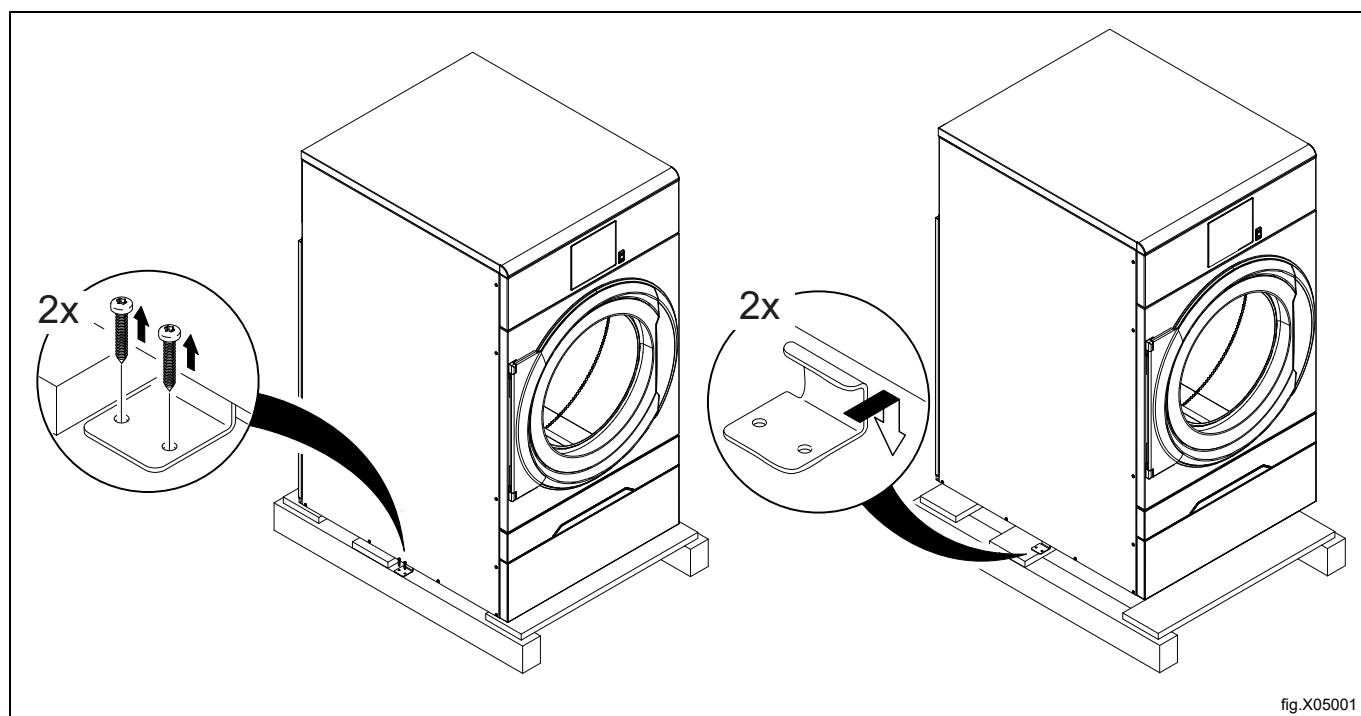


fig.X00529A

Remove the screws and the transportation bracket on each side of the machine.
Remove the machine from the pallet.

Note!

When moving the machine, handle it with care. The drum has no transport clamps.



Place the machine on its final position.

4.3 Recycling instruction for packaging

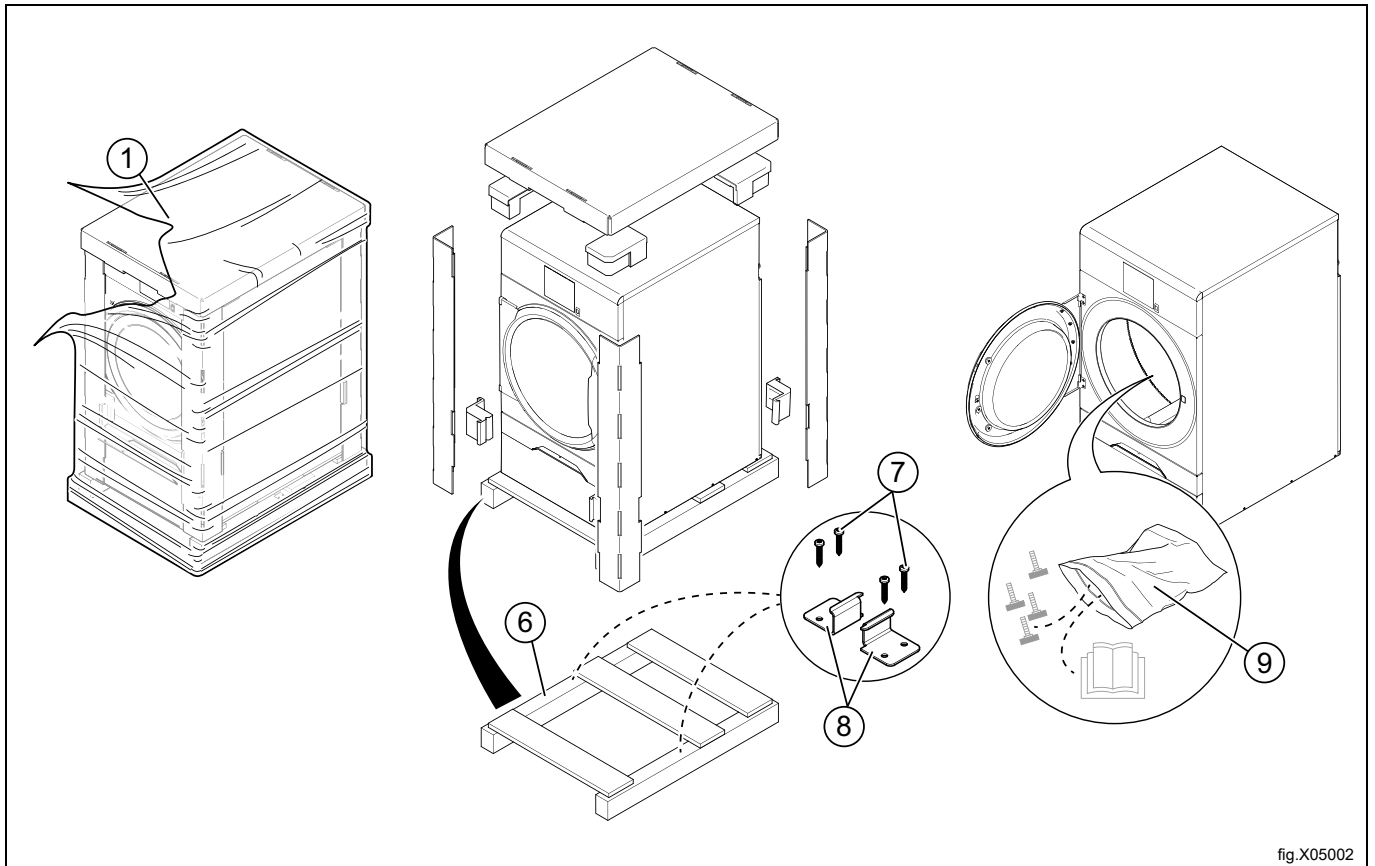


Fig.	Description	Code	Type
1	Wrapping film	LDPE 4	Plastics
2	Cardboard packaging	PAP 20	Paper
3	Cardboard packaging	PAP 20	Paper
4	Corner protection	PS 6	Plastics
5	Corner protection	PS 6	Plastics
6	Pallet	FOR 50	Wood
7	Screw	FE 40	Steel
8	Steel Bracket	FE 40	Steel
9	Plastic bag	PET 1	Plastics

4.4 Wheels

For ergonomic reasons the machine is equipped with wheels.
The wheels makes it easy to move the machine without lifting it.
The wheels can only be used as long as the feet of the machine are not lowered.
Three of the wheels (A) are located at the heat pump unit.

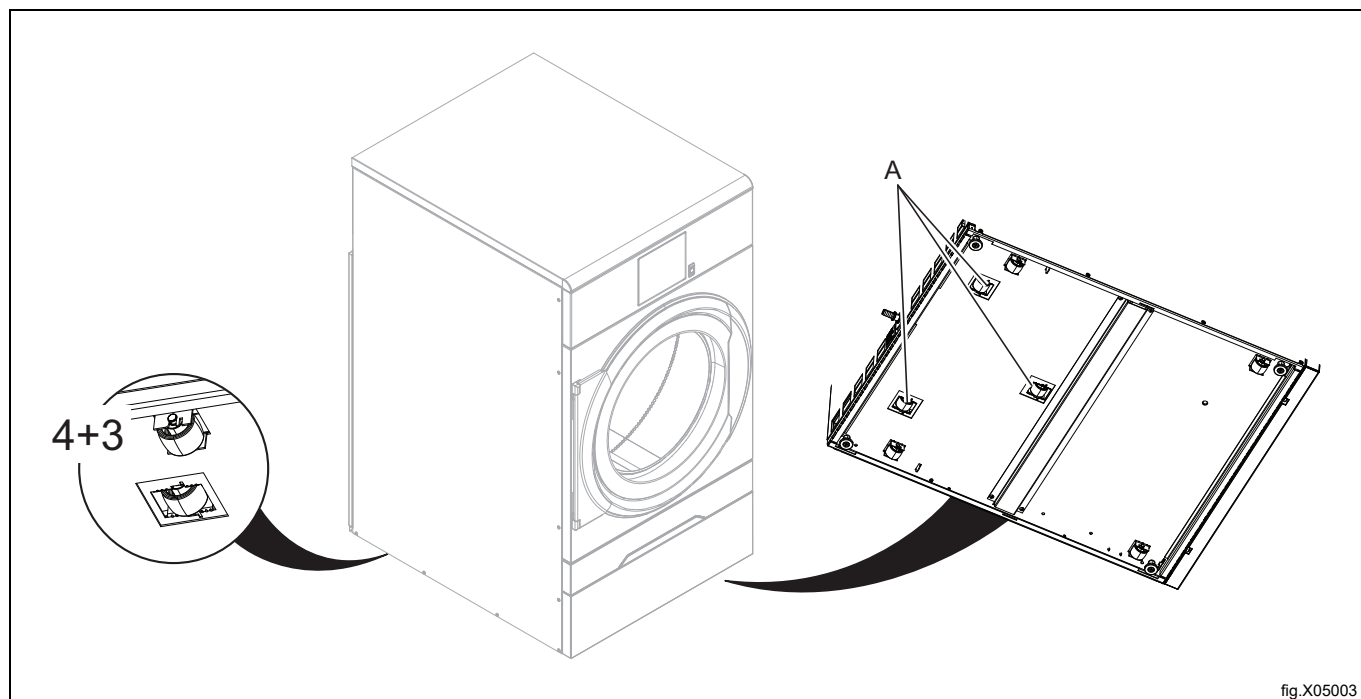


fig.X05003

4.5 Siting

The figure shows recommended distance to walls and/or other machines.

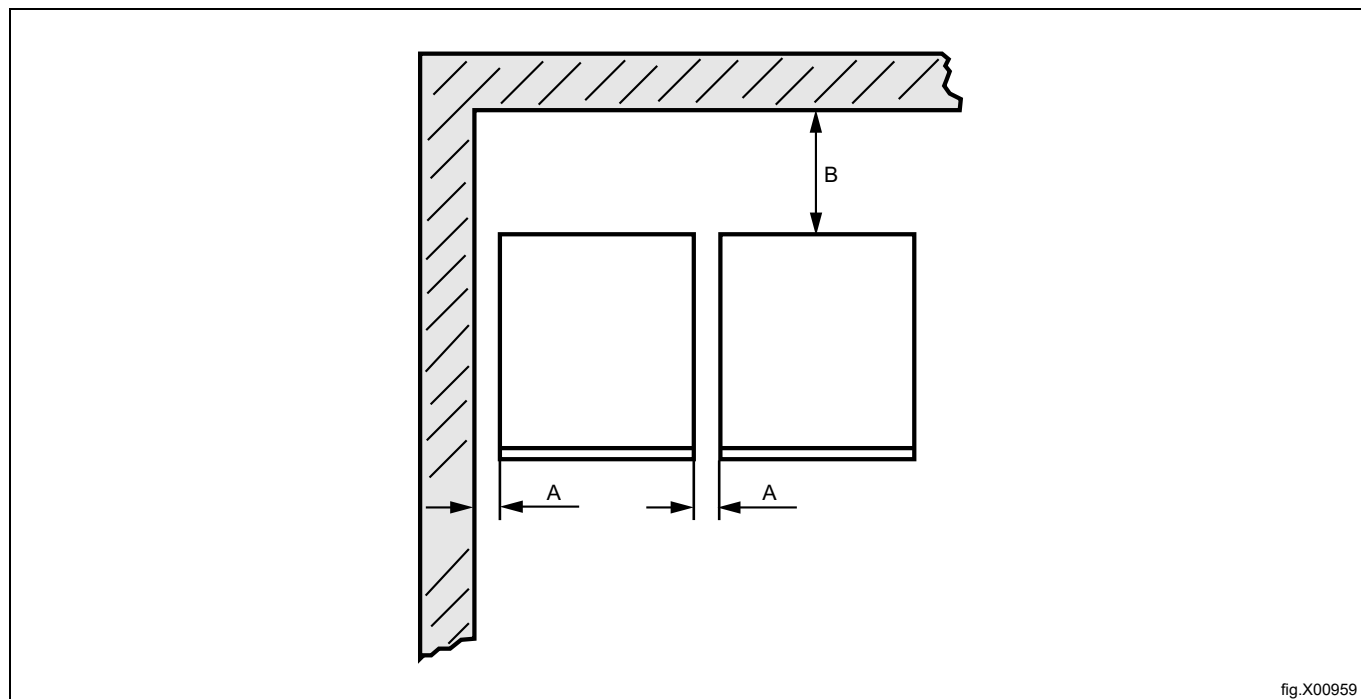


fig.X00959

A	5–500 mm (Min. 5 mm)
B	500 mm (Min. 200 mm)

Note!

The machine should be positioned so that there will be enough space for working, both for the user and service personnel.

Respecting the given recommendations will provide easy access for maintenance and service operations.

In case of space limitations, it is possible to install machines without respecting to the given recommendations. If so, keep in mind that it might be necessary to disconnect and move other machines to be able to reach and perform service on affected machine.

4.6 Drain connection

Connect a drain hose to the pipe (A) on the heat pump unit.

Note!

The drain hose must be positioned over the water level in the floor drain.

The drain must be lower than the drain outlet from the heat pump unit. If not, the water will flow back into the machine. Adjust with the feet.

The drain hose shall hang in a gentle arc.

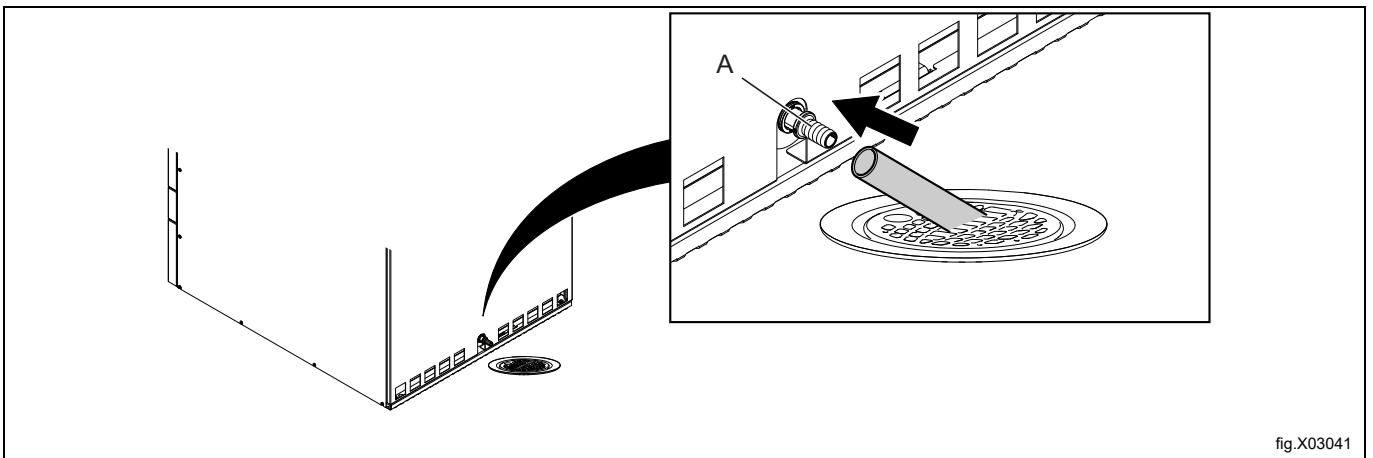
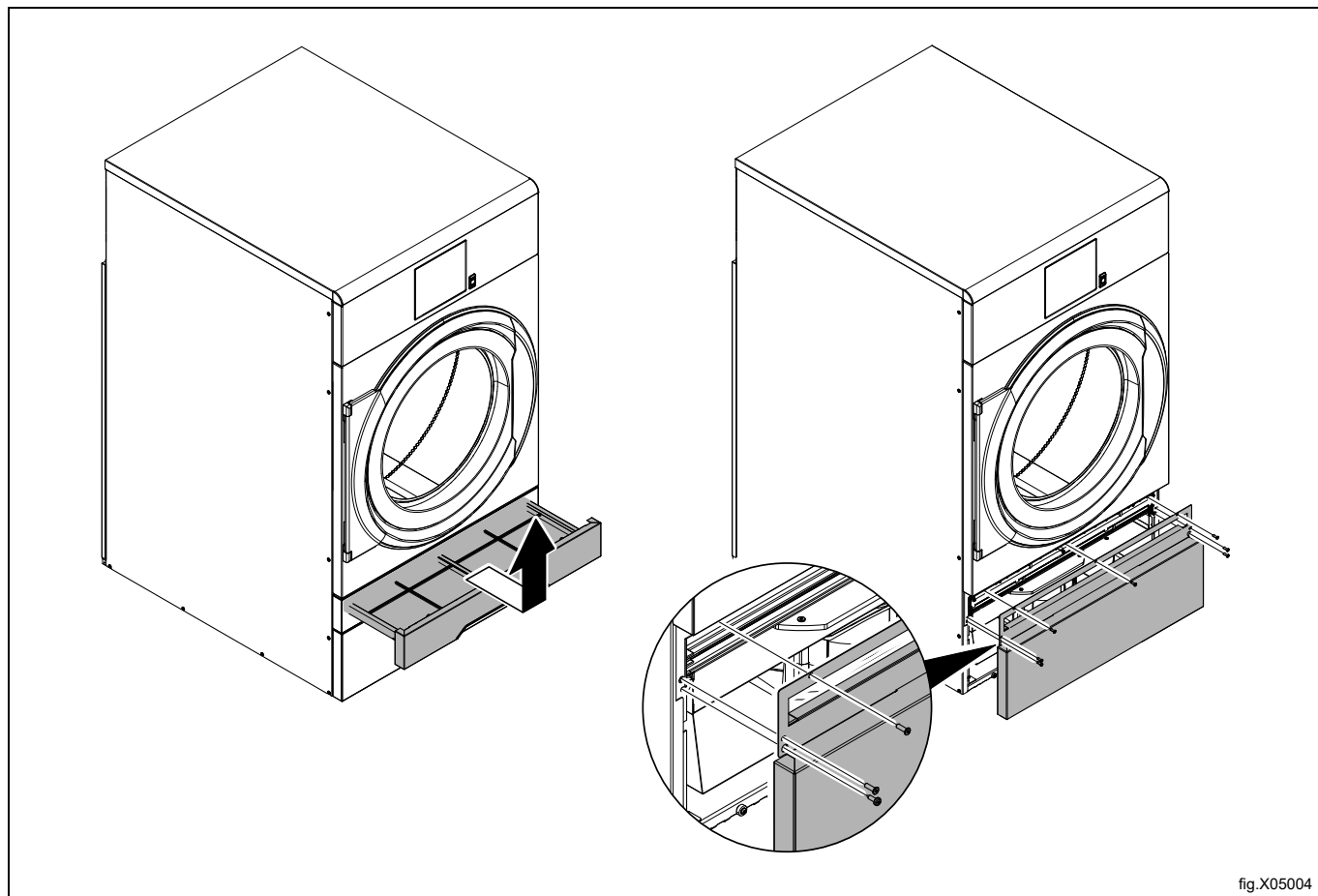


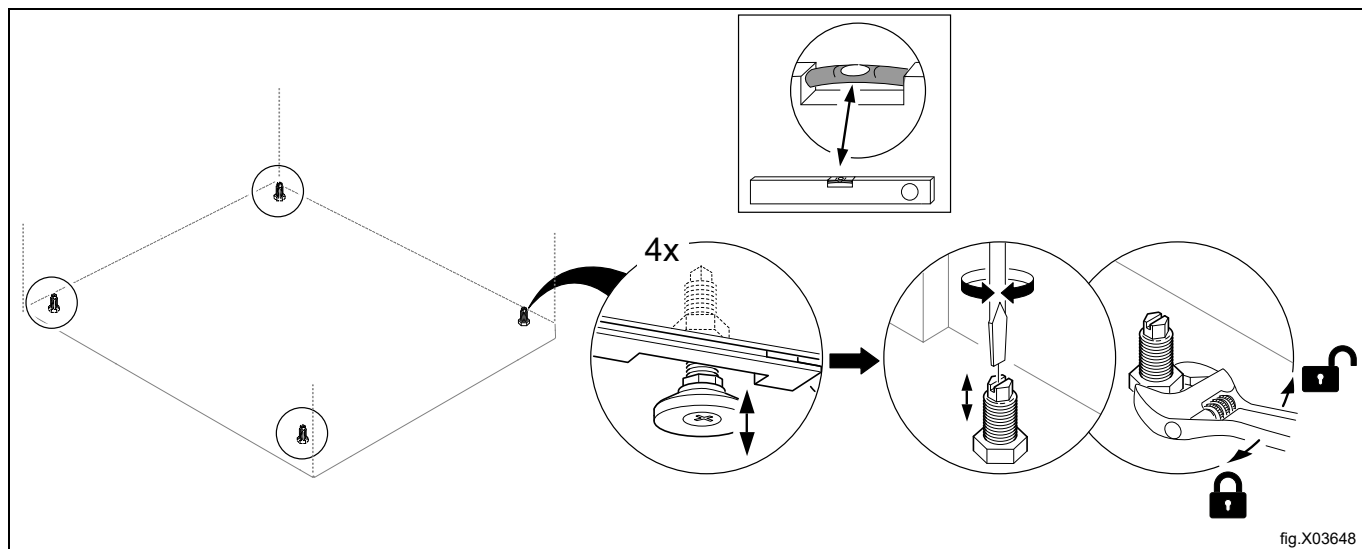
fig.X03041

4.7 Mechanical installation

Remove the filter drawer and the second filter.
Demount the lower front panel.



Level the machine with the feet of the machine. The maximum height adjustment of the feet is 14 mm.



Remount the lower front panel and insert the filter drawer.

5 Evacuation system

5.1 Air principle

Note!

It is very important that the machine gets enough fresh air in order to compensate its heat emission.

The fan (A) creates air flow in the machine, drawing air into the drum via the heating (condenser) unit. The heated air passes through the garments as so called semi axial/radial air flow and collecting moisture from the garments. All the moist air passes first the ordinary filter, the second lint filter and then through the special filter. The special filter is necessary in machines with heat pump in order to protect the heat pump to get clogged by lint.

With help of the fan (A), the air can be recirculated back into the drum and via the heating system again.

The fan (B) is controlled by the heat pump inverter to faster cool down the heating unit.

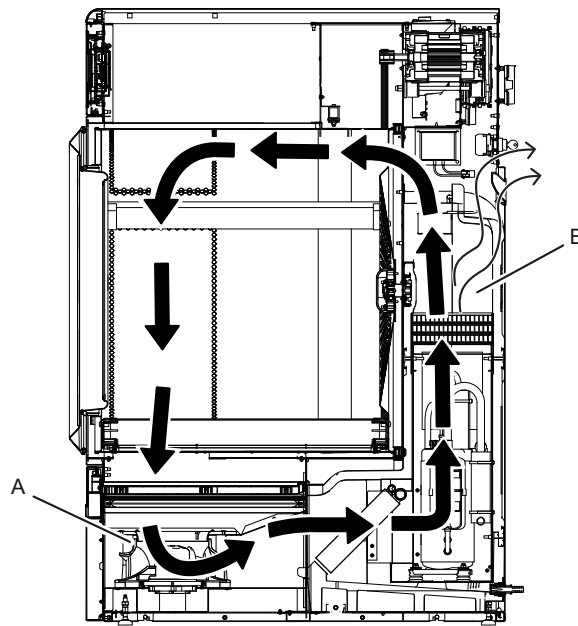
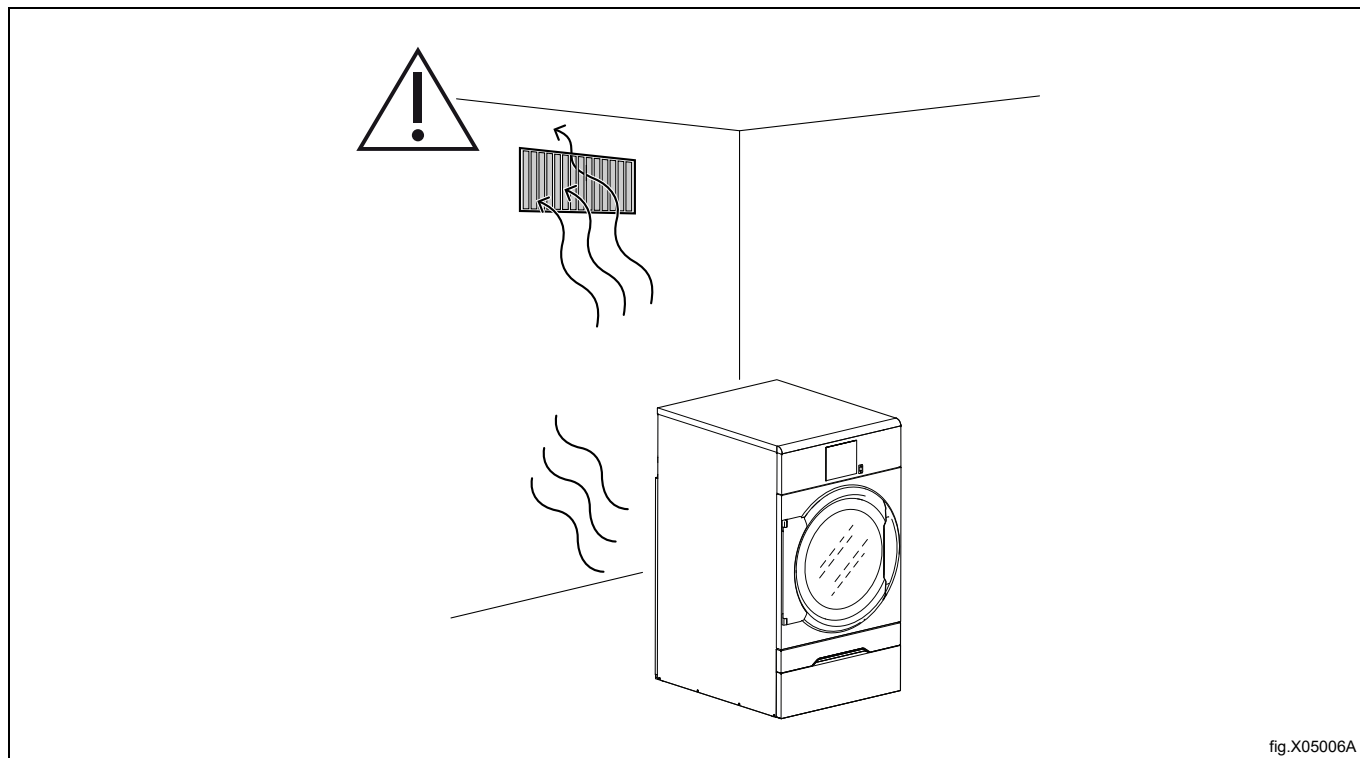


fig.X05005

5.1.1 Ventilating the room

When the machine is in operation, the room temperature increases. Due to this, the room must have sufficient ventilation.

All sources introducing heat into the same room requires to be considered when dimensioning the ventilation. Heat sources could for example be: more tumble dryers, drying cabinets, washers, ironers, radiators, etc. The combination of several sources for heat introduction leads to an increased need for ventilation flow. Other factors may also influence the needed ventilation flow, such as climate zone, building parameters, room size, etc. For assistance with dimensioning necessary ventilation needs, contact authorized ventilation technician.



6 Electrical connection

6.1 Electrical installation



The electrical installation may only be carried out by qualified personnel.



Machines with frequency-controlled motors can be incompatible with certain types of earth leakage circuit breaker. It is important to know that the machines are designed to provide a high level of personal safety, which is why items of external equipment such as earth leakage circuit breakers are not necessary but is recommended. If you still want to connect your machine across an earth leakage circuit breaker, please remember the following:

- contact a skilled, authorised installation company to ensure that the appropriate type of breaker is chosen and that the dimensioning is correct
- for maximum reliability, connect only one machine per earth leakage circuit breaker
- it is important that the earth wire is properly connected.

In instances where the machine is not equipped with an omni-polar switch, one must be installed beforehand.

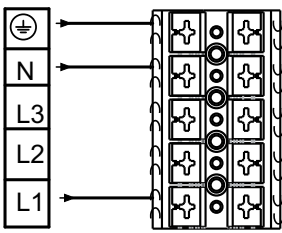
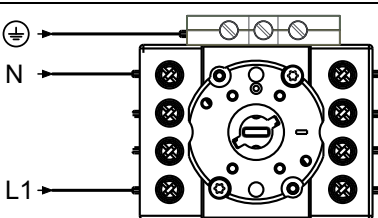
In accordance with the wiring rules: mount a multi-pole switch prior to the machine to facilitate installation and service operations.

The connecting cable shall hang in a gentle curve.

For AU/NZ: Fixed wiring is in accordance with AS/NZS 3000.

6.2 Single-phase connection

Demount the cover panel from the supply unit. Connect the earth and other wires as shown.

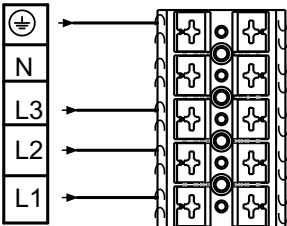
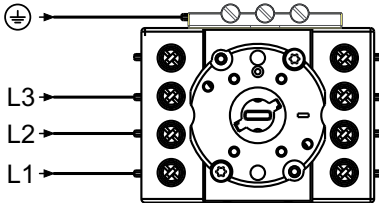
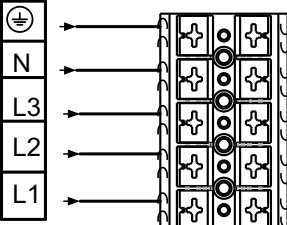
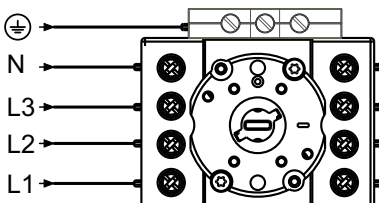
1NAC	
1NAC	

When the installation is completed remount the cover panel and check:

- That the drum is empty.
- That the machine operates by connecting the power to the machine and start a program with heat.

6.3 Three-phase connection

Demount the cover panel from the supply unit. Connect the earth and other wires as shown.

3AC	
3AC	
3NAC	
3NAC	

6.4 Electrical connections

Electrical connections					
Heating alternative	Main voltage	Hz	Heating power kW	Total power kW	Recommended fuse A
Machines with heat pump	380-480V 3(N)~	50/60	¹	3.8	10
	220-240V 3~	50/60	¹	3.8	16
	208-240V 1(N)~	50/60	¹	3.8	20

1. Total power and recommended fuse does not depend on the heating power in those cases.

6.5 Functions for I/O-boards

Depending on machine configuration, the inputs are configured according to the following table:

Connection	
Terminal 5	Enable start
Terminal 6	Remote start /stop
Terminal 7	Coin 1
Terminal 8	Free start

The signal level for the inputs can be either 5-24V DC/AC or 100- 240V AC.

For 5-24V, connect the signal reference to terminal 3 and for 100-240V to terminal 4. The potentials on the inputs cannot be mixed!

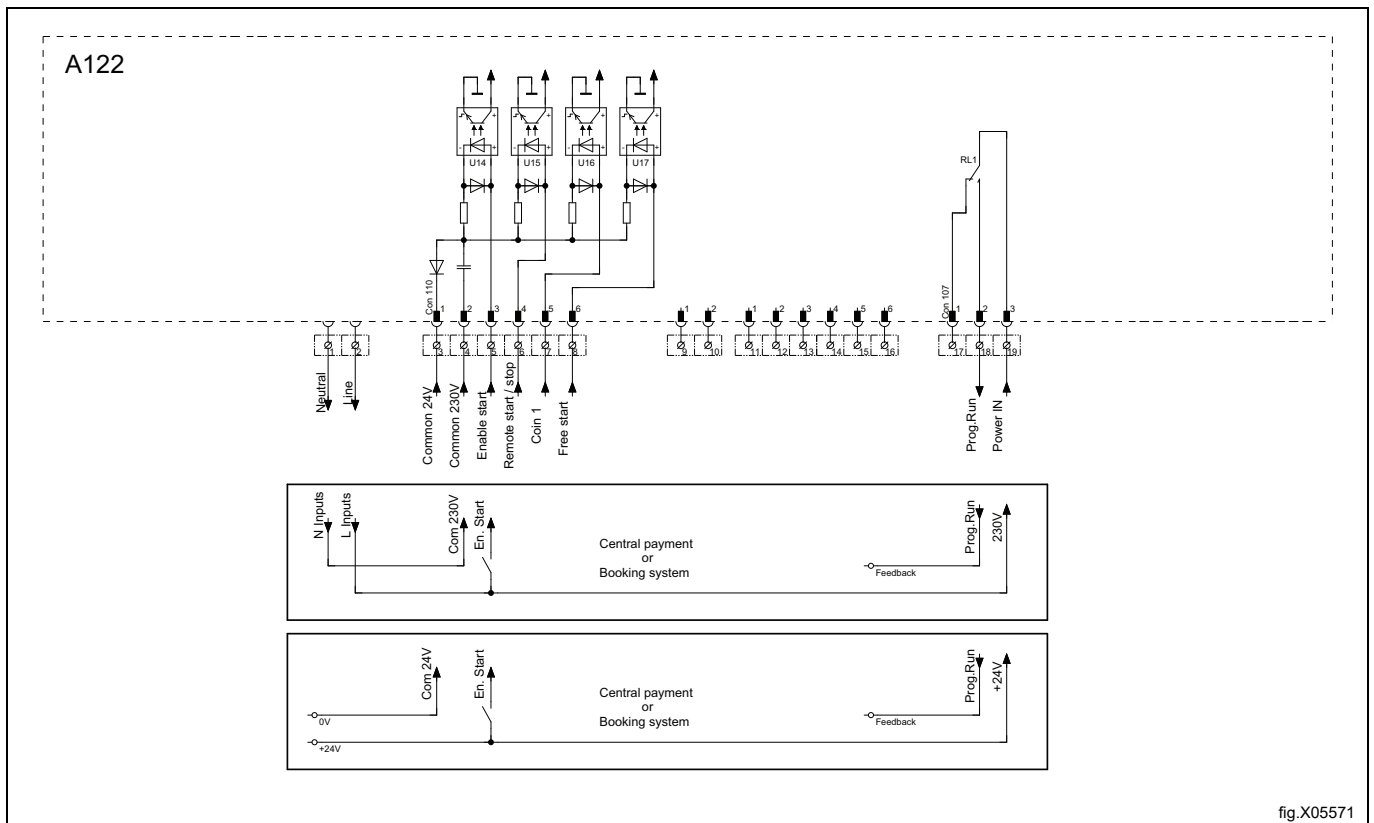
The electrical schematic can be one of the following:

6.5.1 Enable start

This signal can be used to permit the start of the program when the machine is in standby.

Once permission to start has been granted, the signal from the central payment or the booking system must remain active (high) during drying. When the signal gets inactive (low) the machine will abort ongoing program and enter cooling.

To receive the feedback signal from the machine, 230V or 24V must be connected to terminal 19. The feedback signal on terminal 18 will remain active (high) during entire program.

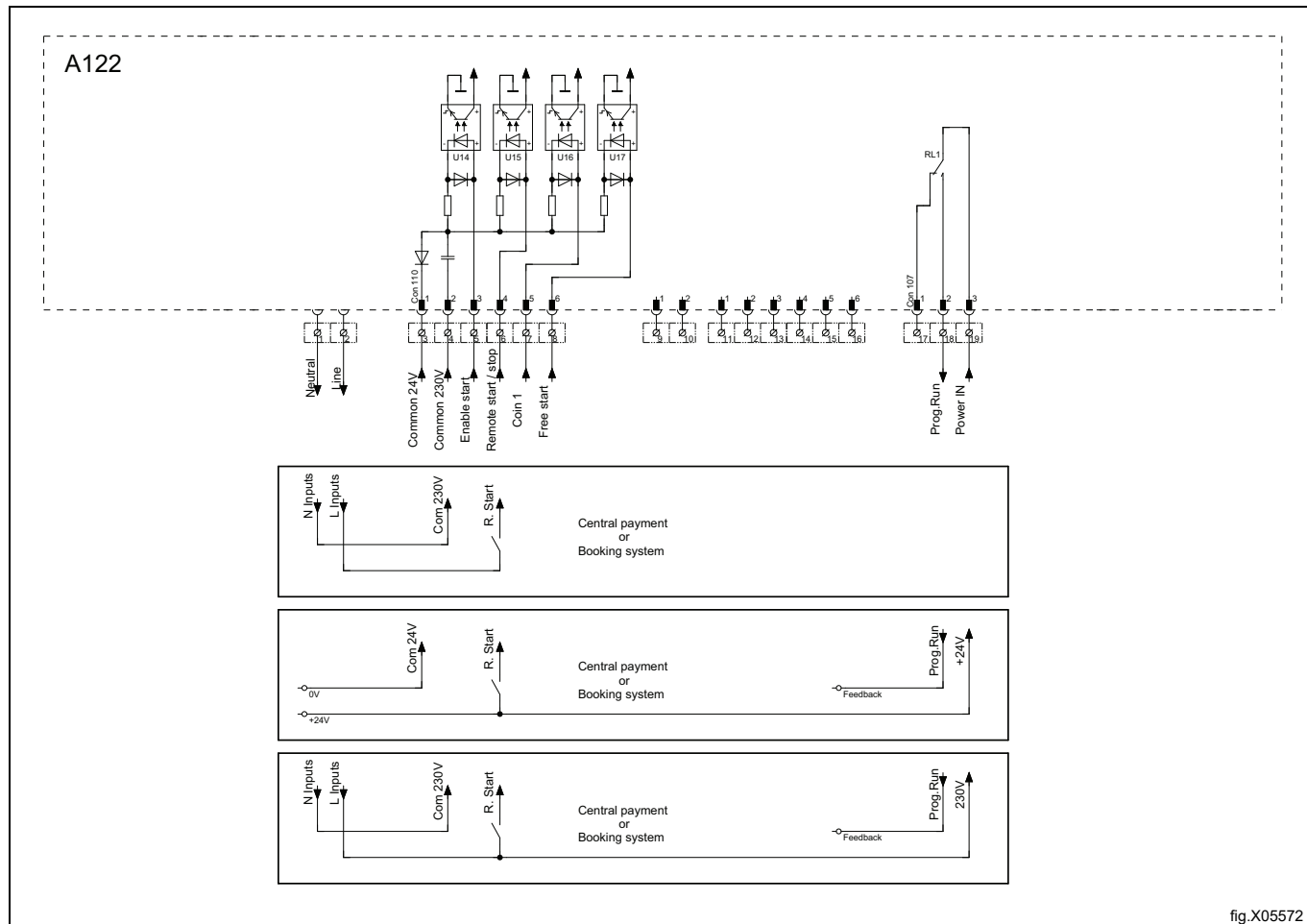


6.5.2 Remote start/stop

This signal can be used to start the program when the machine is in standby, to pause the cycle when running and to continue the cycle when paused.

The central payment system must provide a pulse 300–3000 ms (500 ms is recommended) to start the program.

To receive the feedback signal from the machine, 230V or 24V must be connected to terminal 19. The feedback signal on terminal 18 will remain active (high) during entire program.



6.5.3 External coin meter/Central payment

The signal received from external coin meter must be a pulse between 300–3000 ms (500 ms is recommended) with a minimum pause of 300 ms (500 ms is recommended) between two pulses.

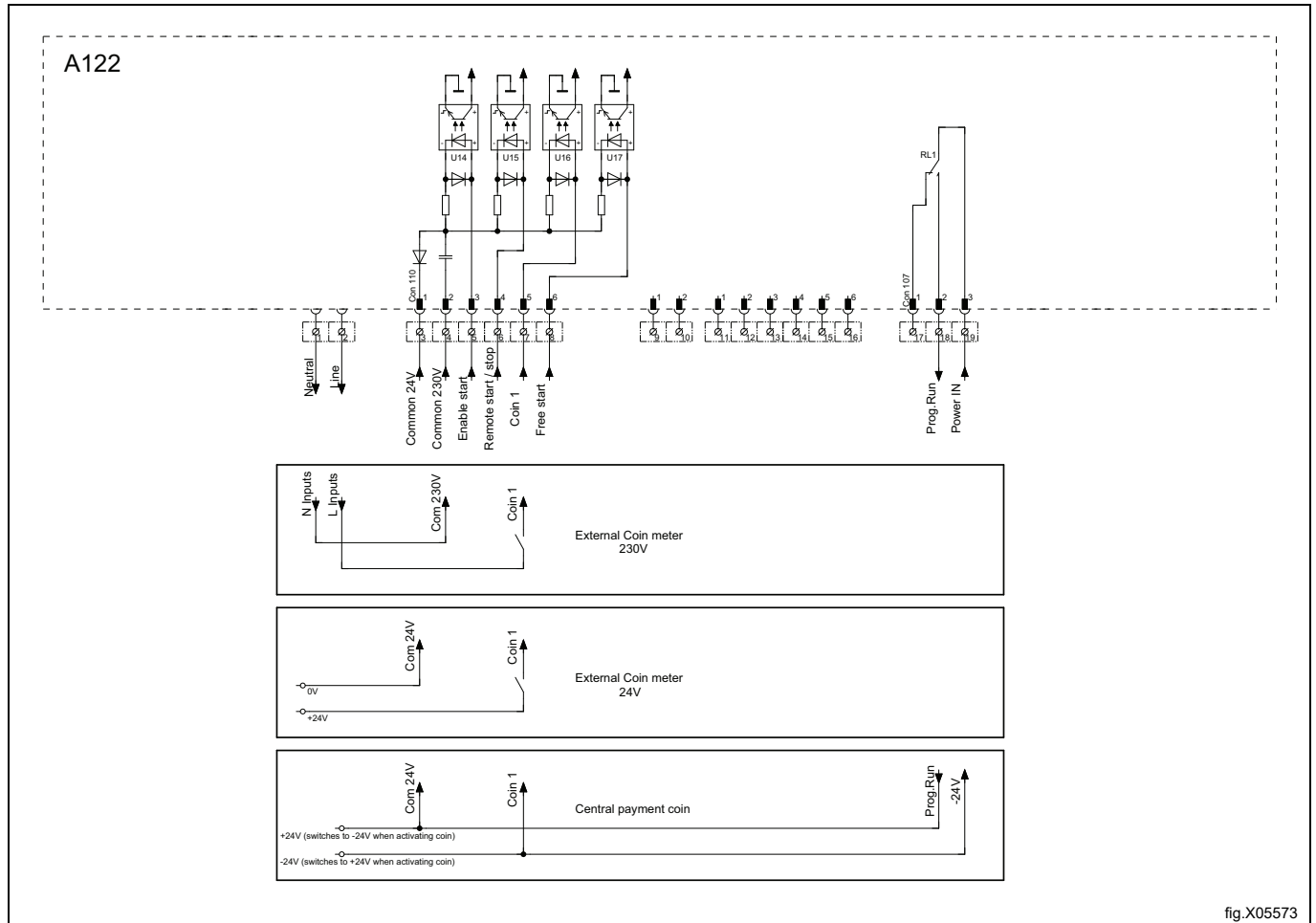
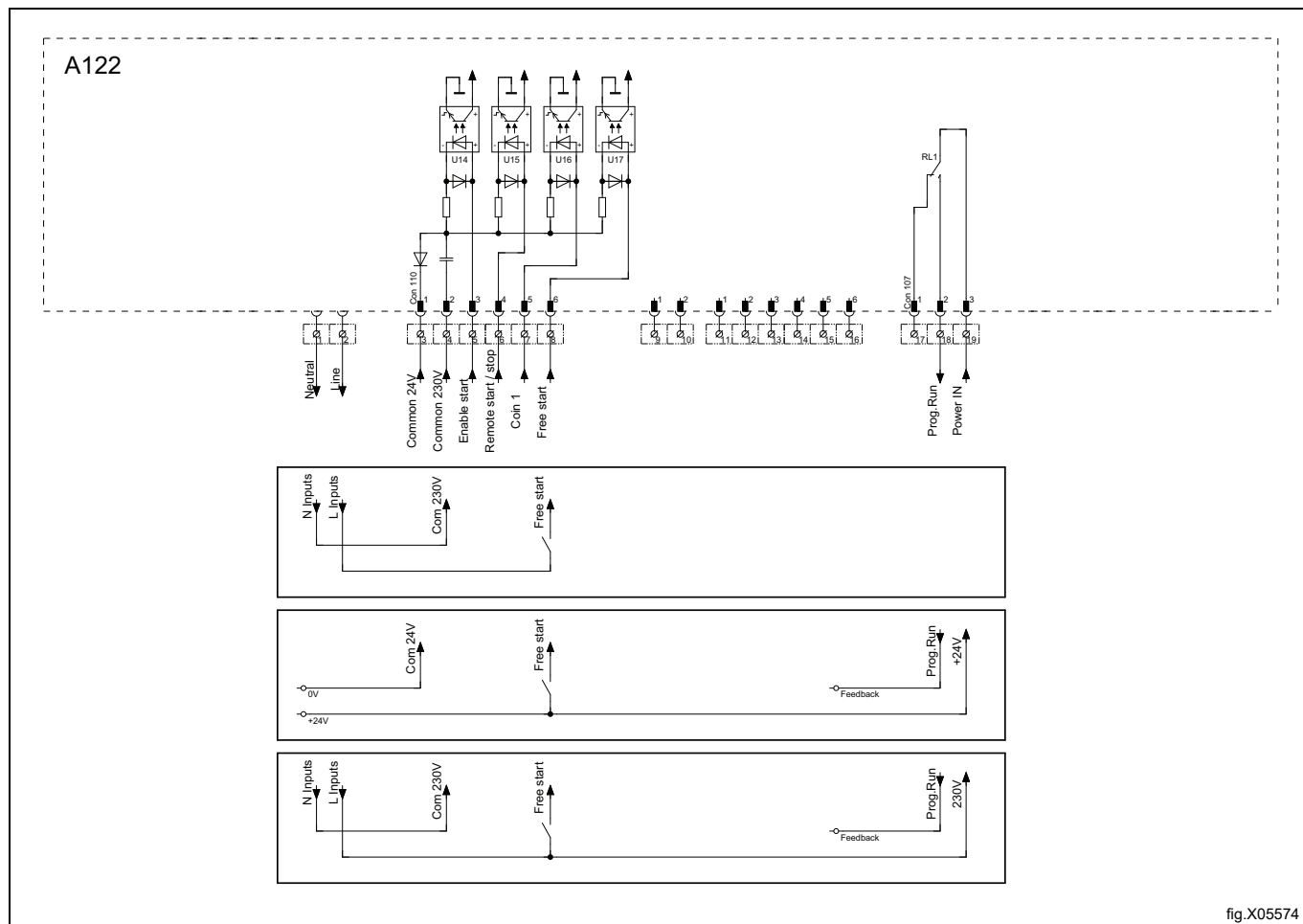


fig.X05573

6.5.4 Free start

This signal can be used to be able to start a program without booking or paying when the machine is connected to a booking or a payment system.



6.6 Option

6.6.1 External connection 100 mA

A special connection terminal is located on the connection console.

This connection can be used as external control of a fan.

The terminal for external control is equipped with 220–240V max. 100 mA and is intended solely for the operation of a contactor.

Max. connection 100 mA.

Gnd. must not be used for earthing of external board.

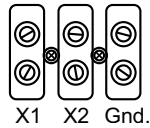


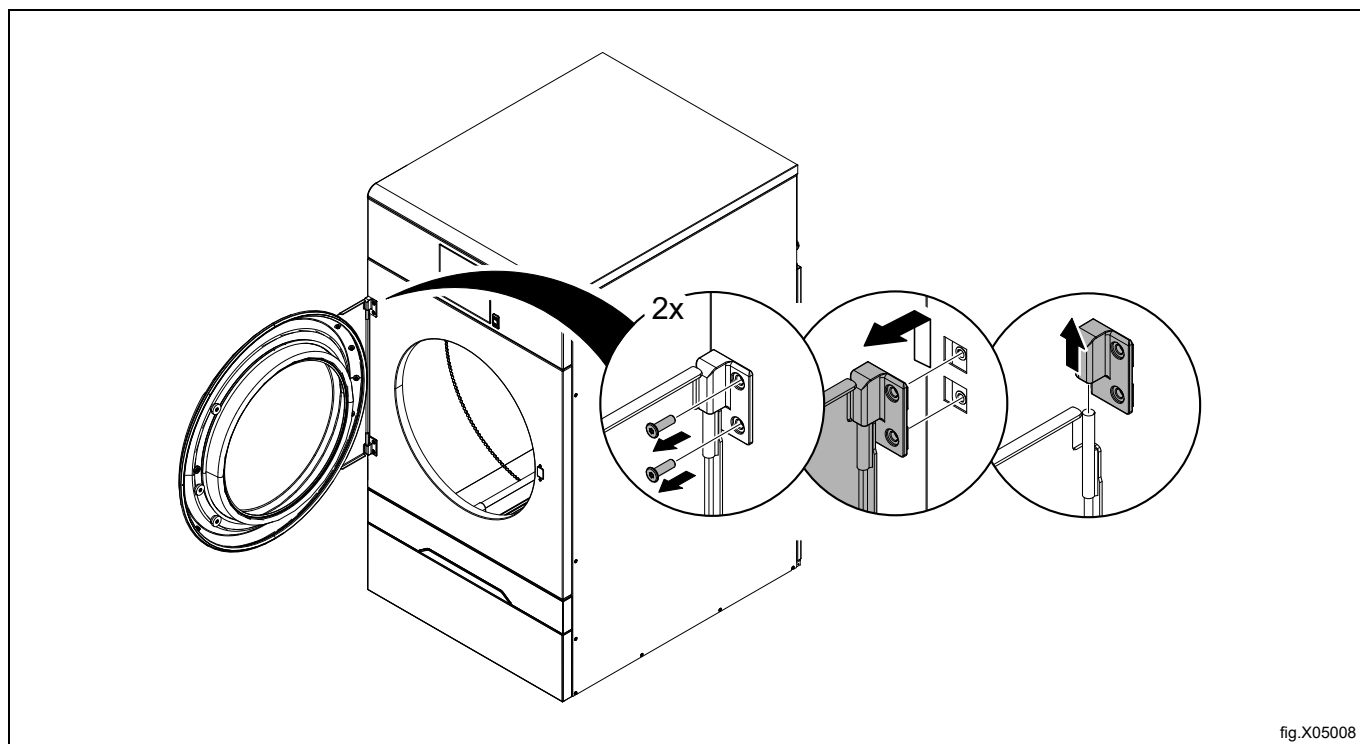
fig.7154

7 Reversing the door

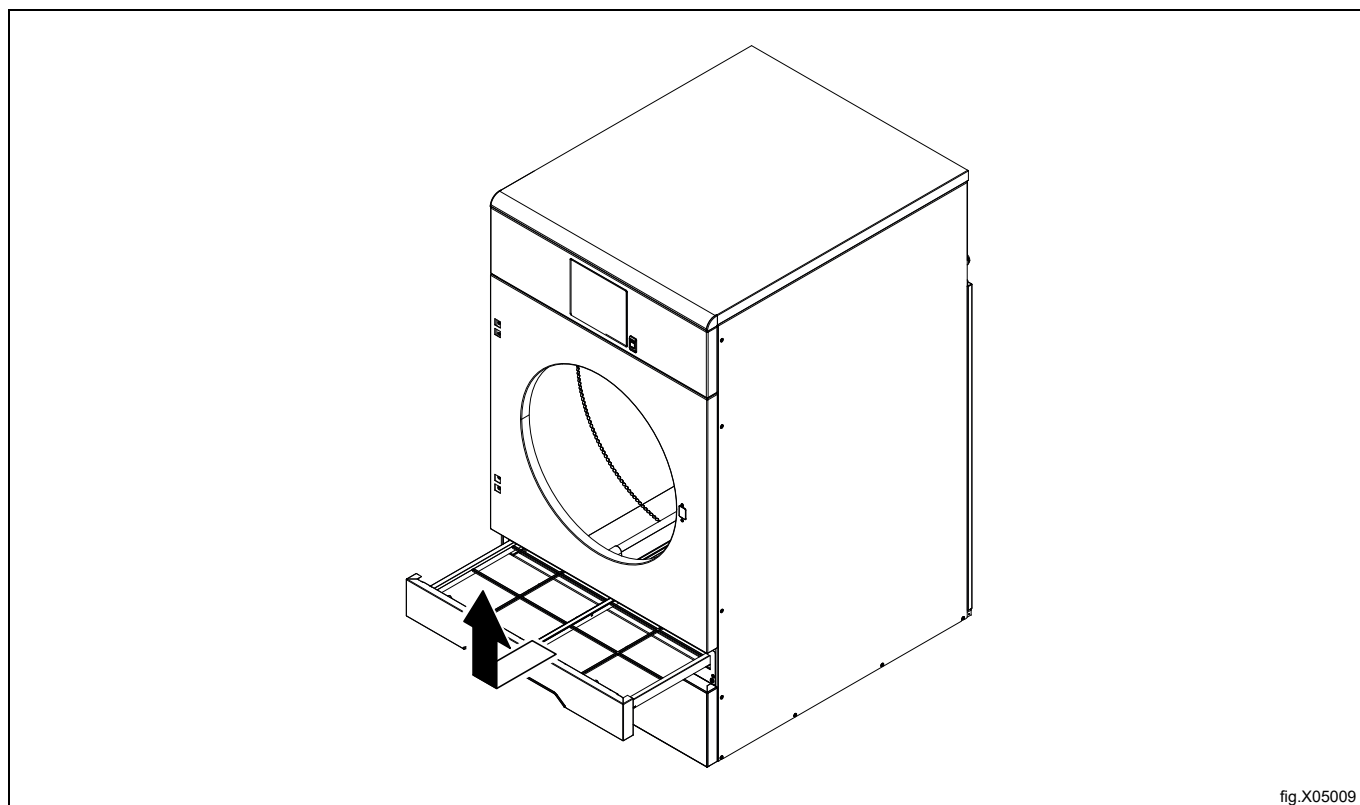
For different reasons it might be necessary to change the hanging of the door from one side to the other. The following procedure shows reversing the door from the left side to the right side as an example.

Disconnect the power to the machine.

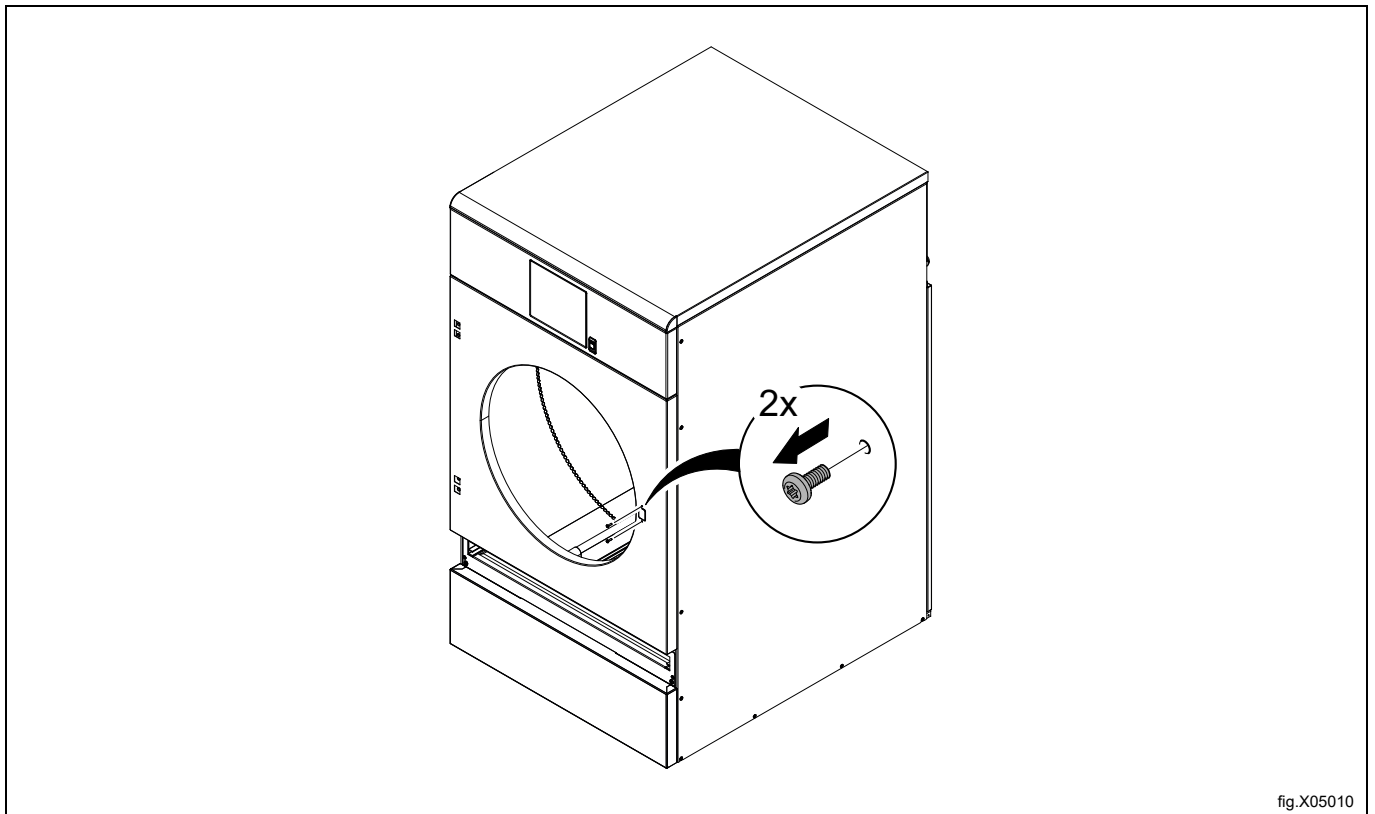
Demount the hinges and remove the door. Remove the upper hinge first.



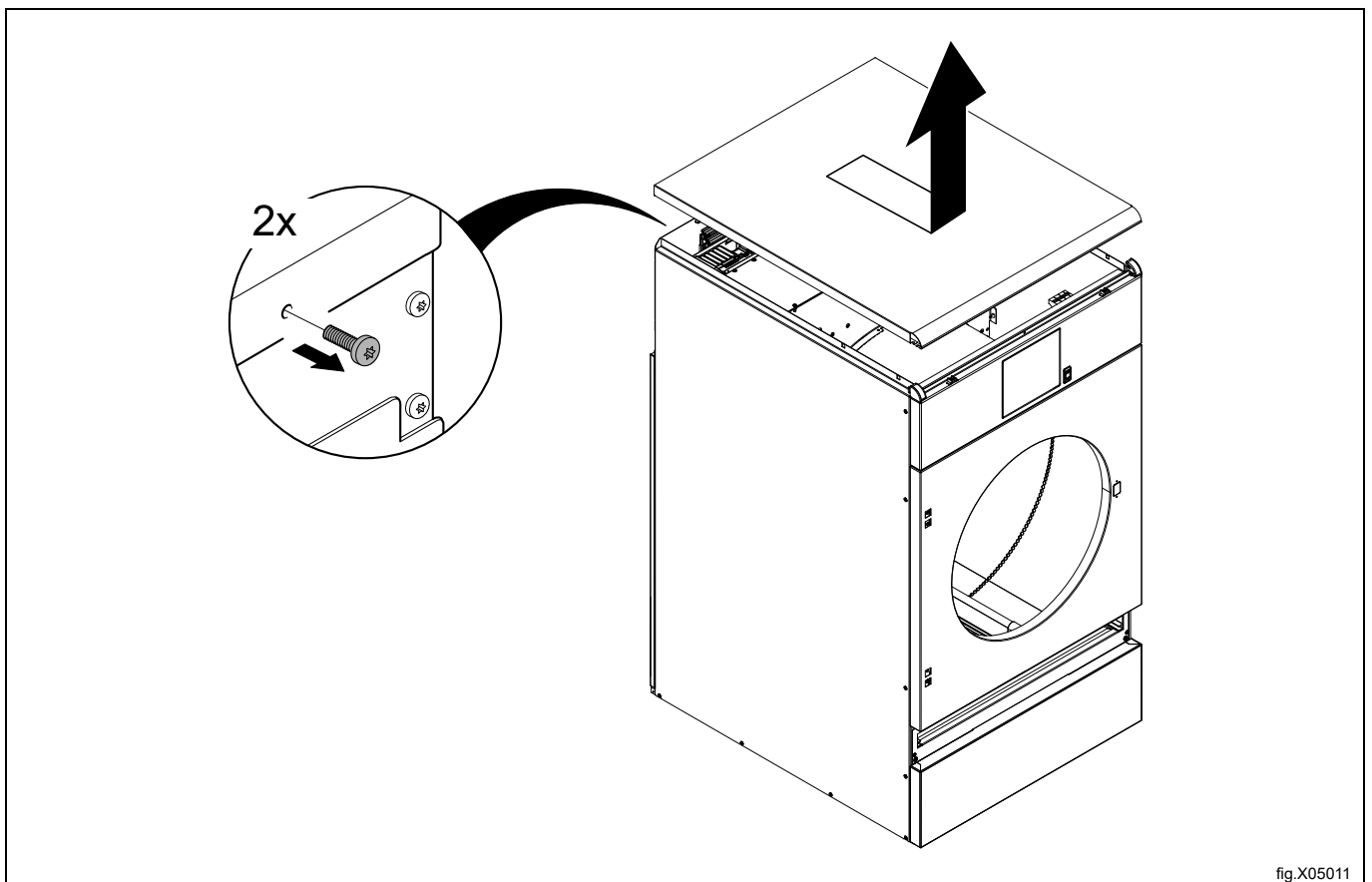
Remove the filter drawer from the machine.



Remove the screws to the door switch magnet.



Demount the top panel.



Demount the control panel. Remove the screws (1) and loosen the screws (2) on each side.

If possible, put the control panel on top of the side panels. If not possible for any reason; disconnect the cables to the control panel and put it elsewhere.

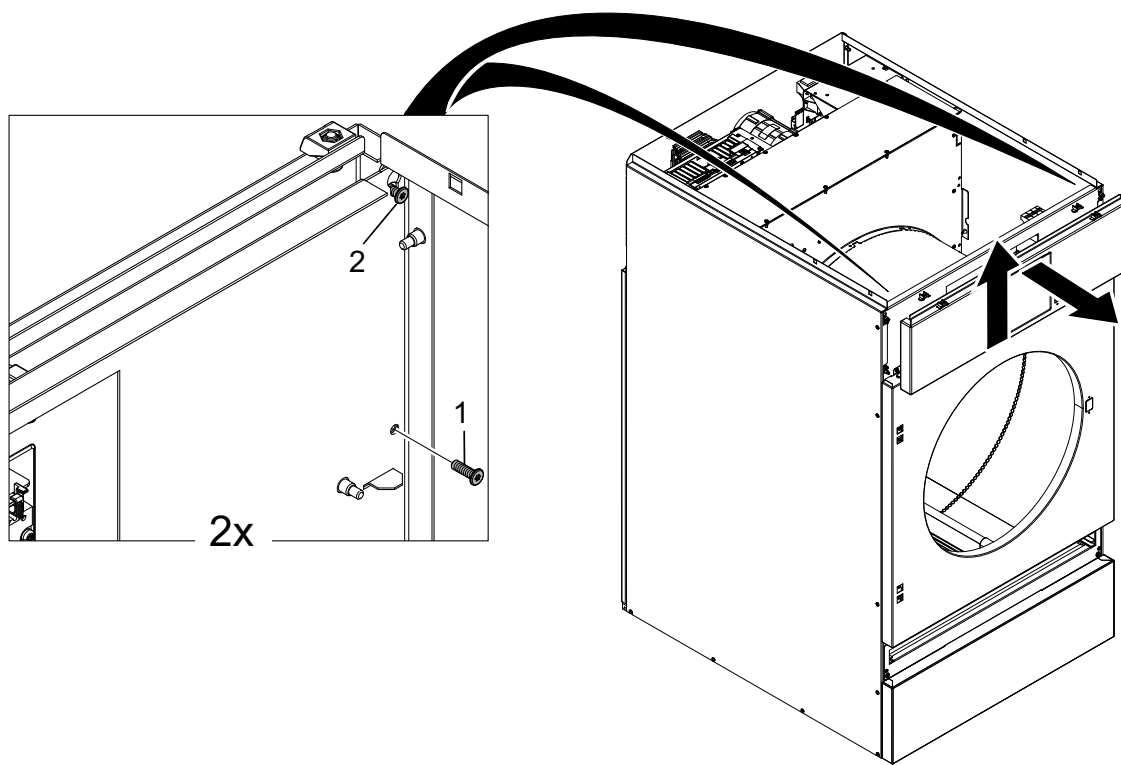
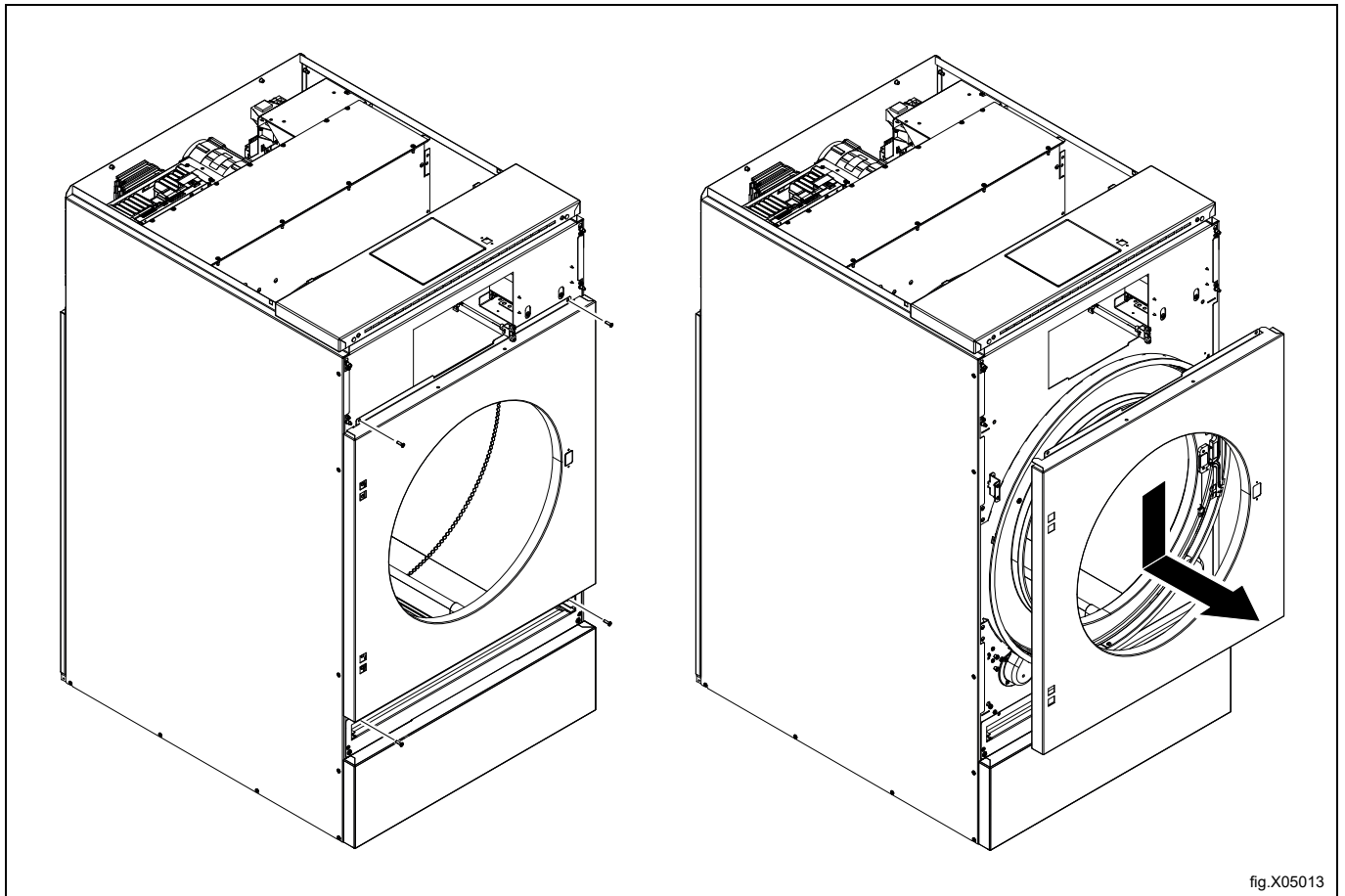


fig.X05012

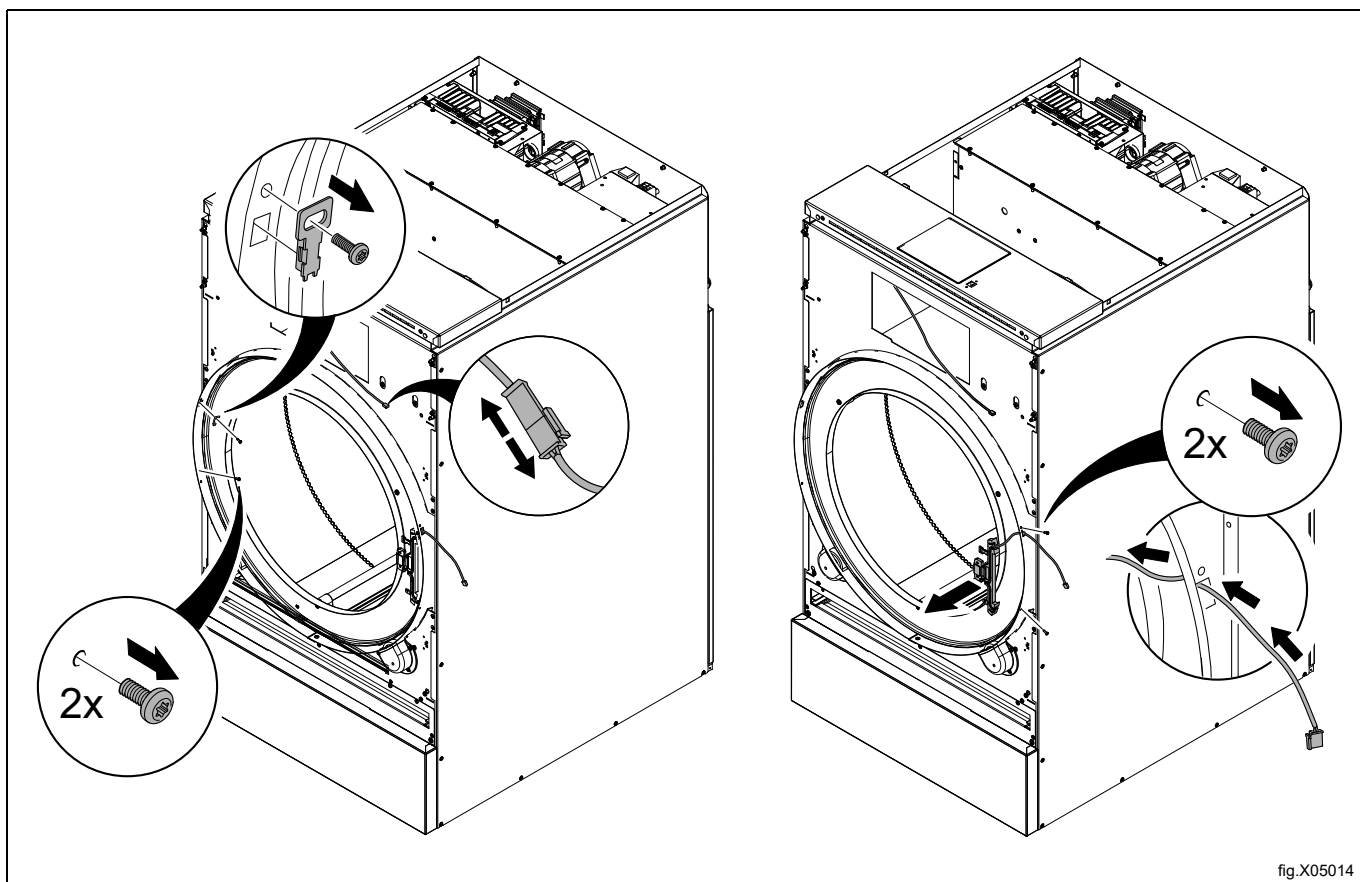
Demount the front panel.



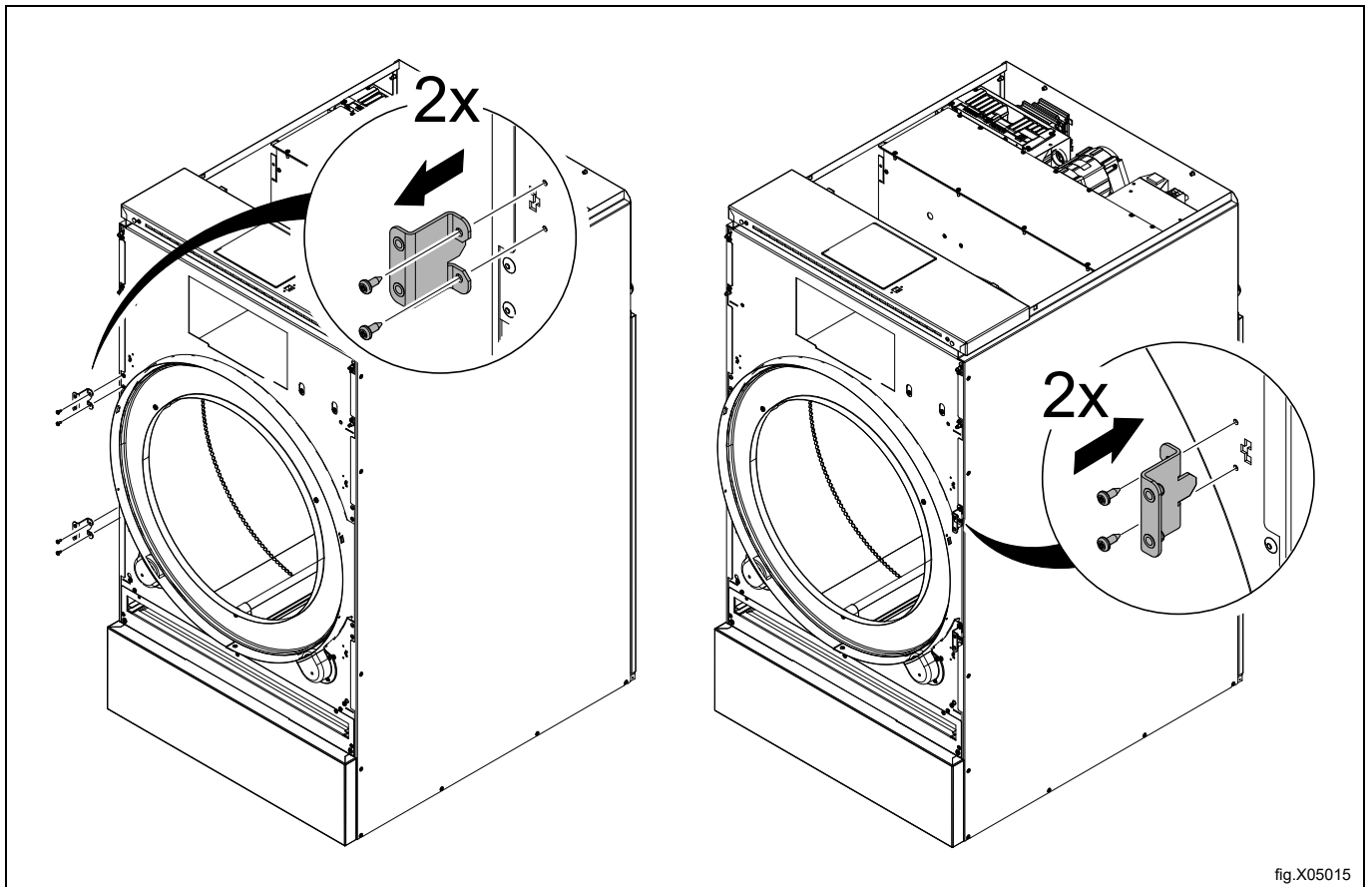
Disconnect the door switch cable. The door switch cable are hanging to the right of the outer drum.

Remove the upper screw, the cover and the lower screw on the right side.

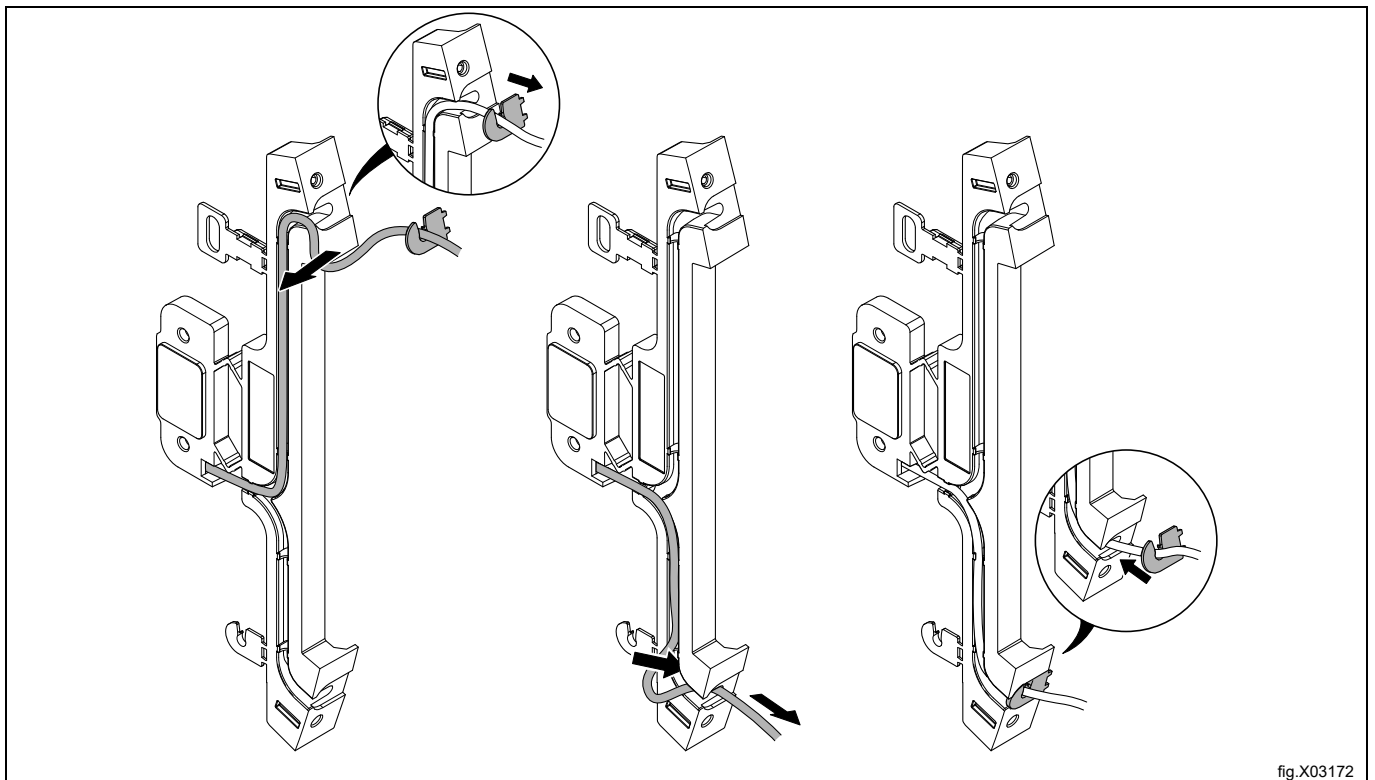
Remove the screws on the left side to release the reed switch bracket holding the door switch cable. Pull the door switch cable through the hole to release it.



Demount the brackets and fasten them on the opposite side. Make sure to fasten them according to the figure.



On the reed switch bracket, pull out and move the door switch cable from the upper to the lower position according to the figure. Make sure that the cable and the end piece are in position.



Turn the reed switch bracket up side down and mount it on the right side. Pull the door switch cable out through the hole and connect it.

Fasten the reed switch bracket with the screws on the right side.

Remount the cover and fasten the upper and lower screw on the left side.

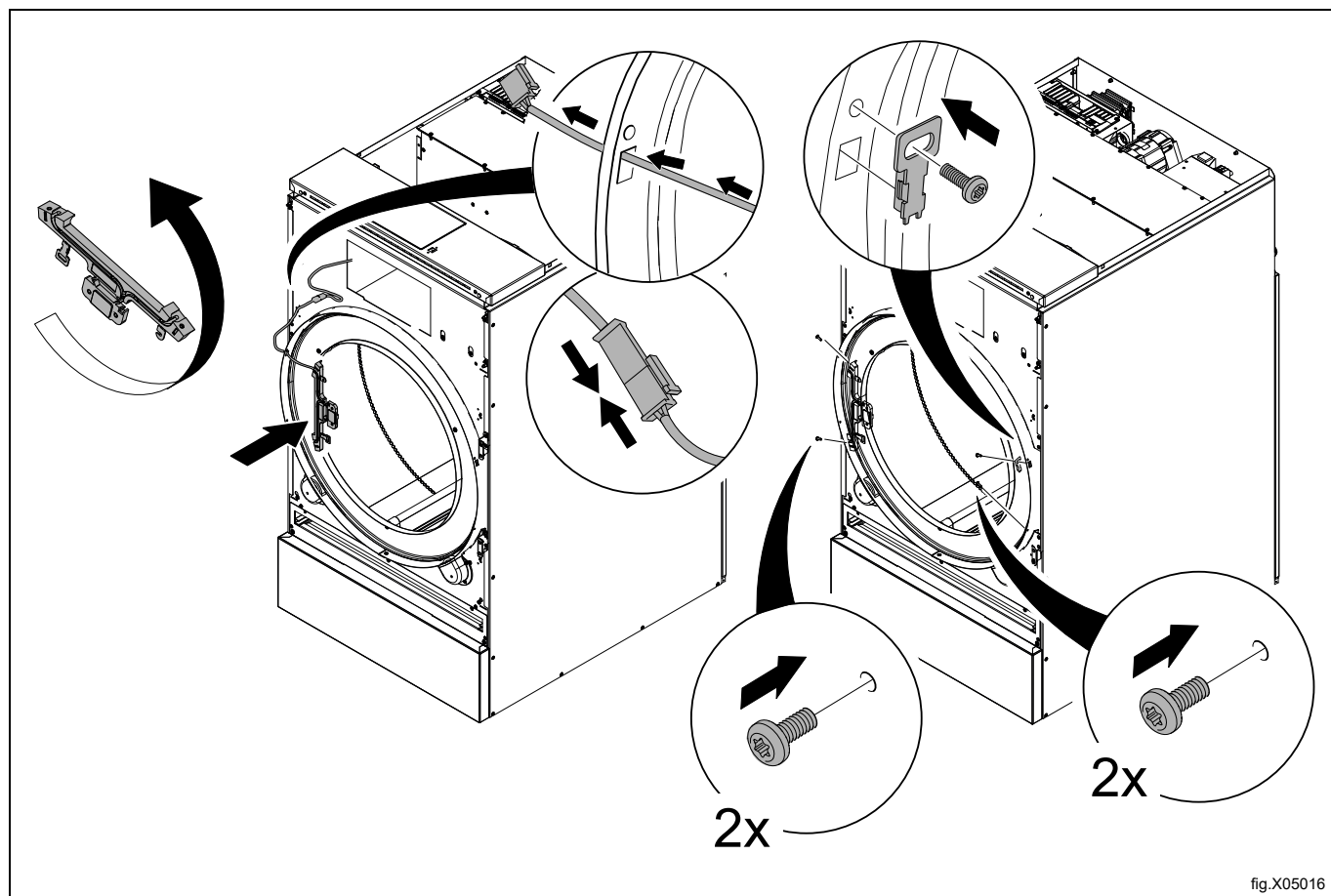
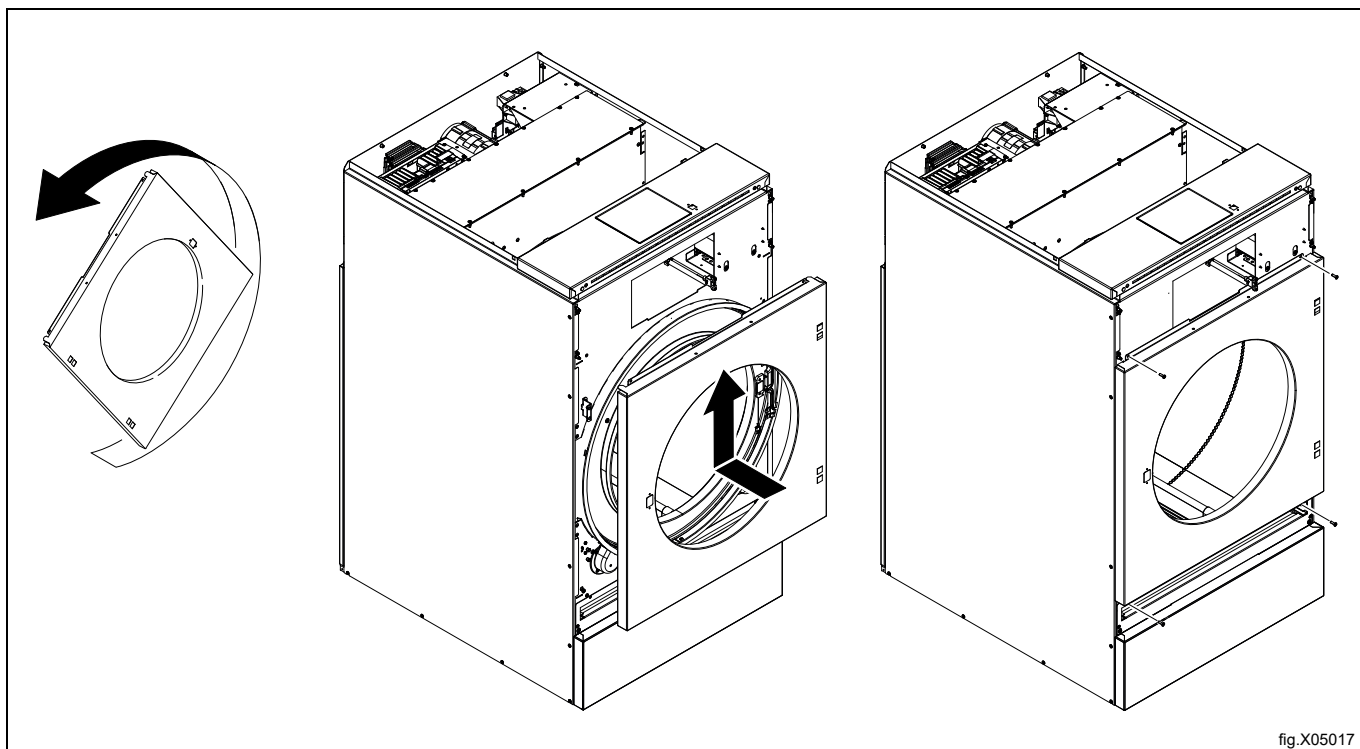


fig.X05016

Turn the front panel up side down and remount it on the machine.
Remount the front panel.



Ensure that the door switch cable does not get damaged when remounting the front panel.



Remount the control panel.

If any cables were disconnected; connect them at the same location.

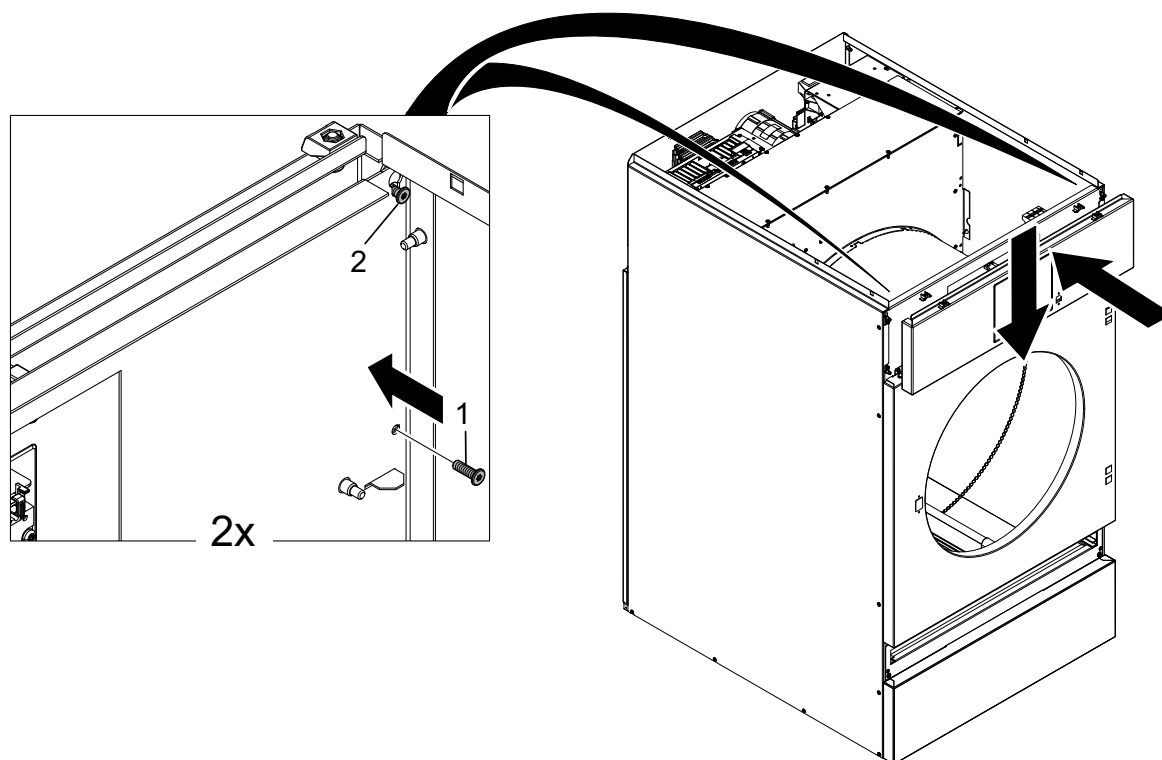
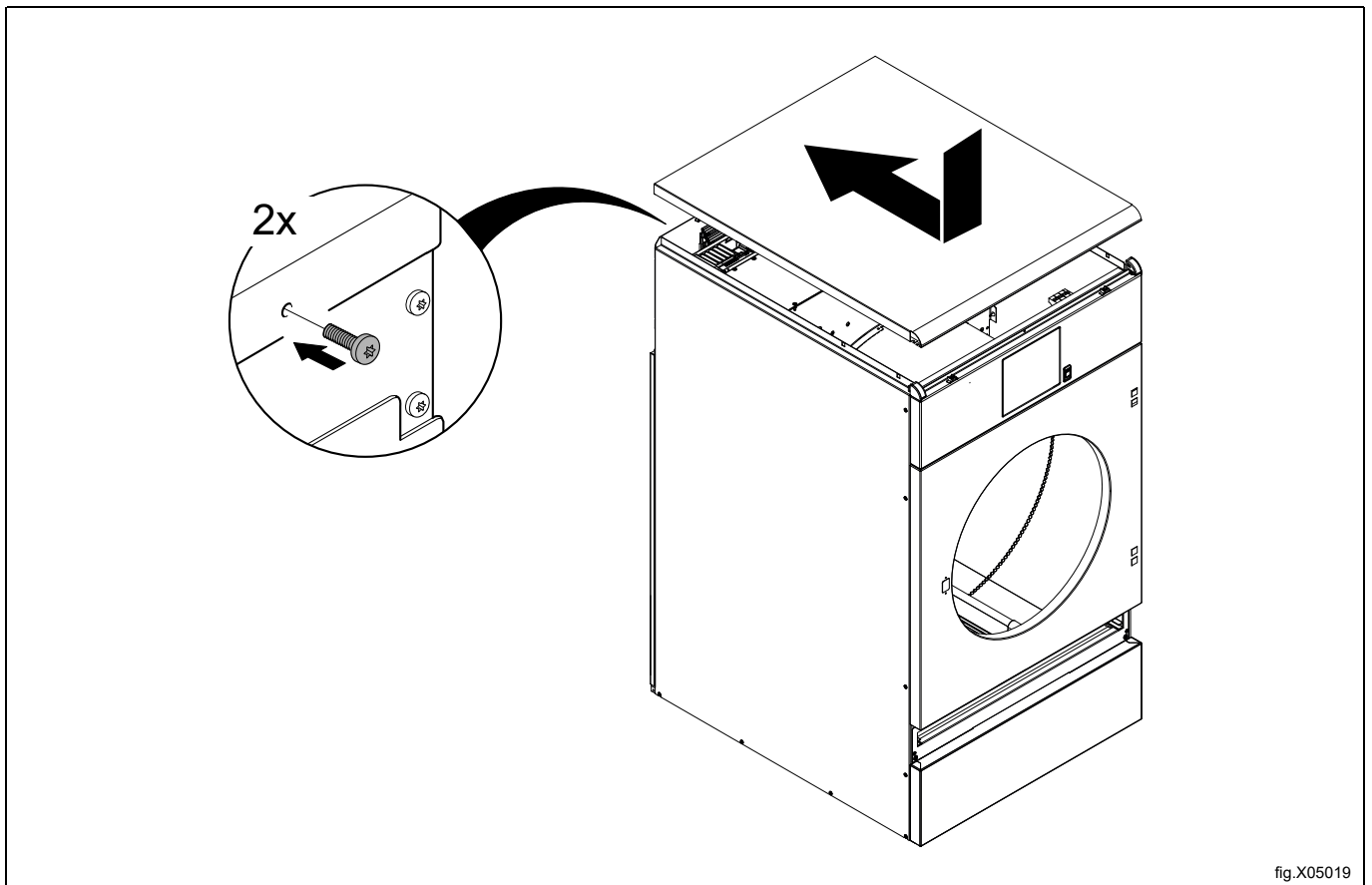
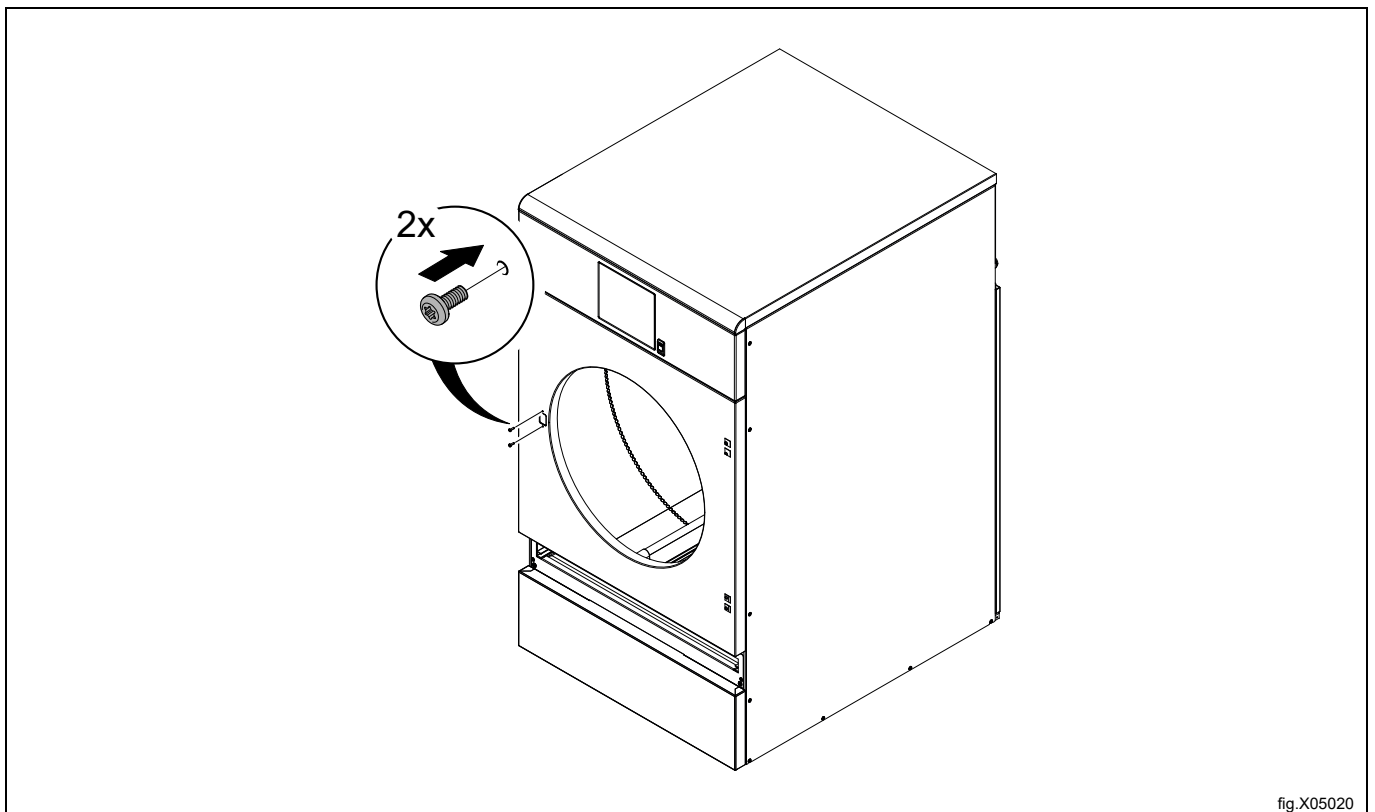


fig.X05018

Remount the top panel.



Fasten the screws to the door switch magnet.



Insert the filter drawer.

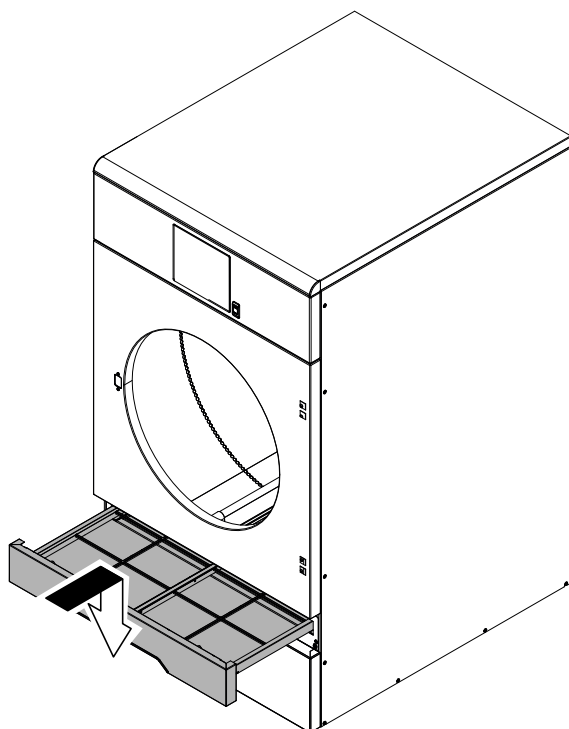


fig.X05021

Turn the door up side down with the inside facing towards you.
Remount the lower hinge first.
Position the door on the lower hinge.

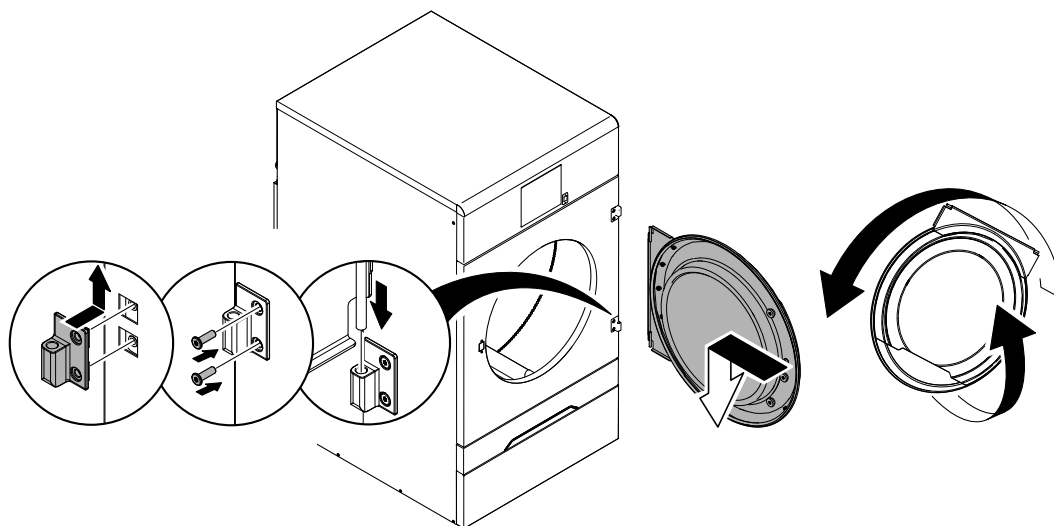


fig.X05022

Put the upper hinge on the door and then fasten the hinge while it is on the door.

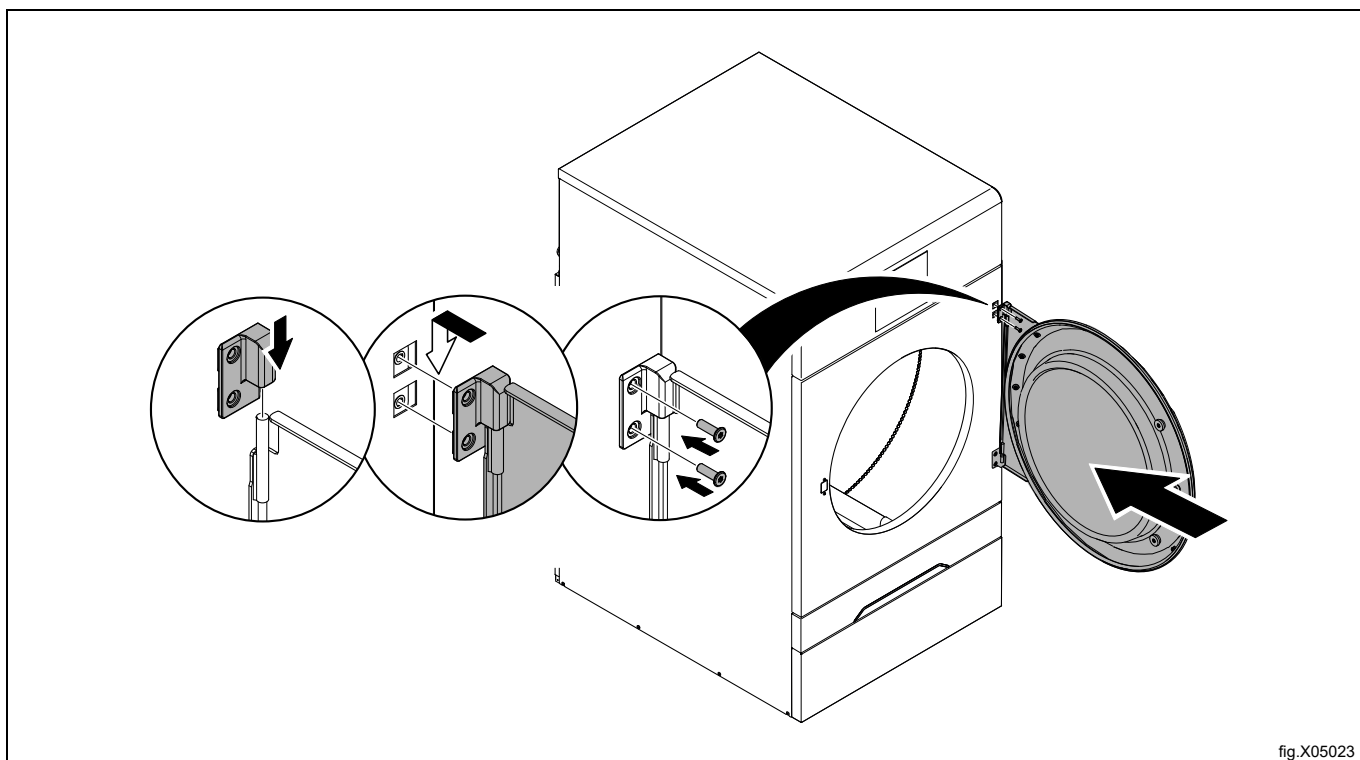


fig.X05023

Connect the power to the machine.
Test run the machine.

8 Function check



May only be carried out by qualified personnel.



A function check must be made when the installation is finished and before the machine can be ready to be used. Whenever a repair has been made, a function check must be performed before the machine can be used again.

8.1 Check the automatic stop of the machine

- Start the machine.
- Check if the micro switches are working properly:
The machine must stop if the door is opened.

8.2 Check the heat

- Let the machine work for five minutes on a program with heat.
- Check that the heating is working by opening the door and feel if there is heat in the drum.

8.3 Ready to use

If all tests are OK the machine is now ready to be used.

If some of the tests failed, or deficiencies or errors are detected, please contact your local service organisation or dealer.

9 Disposal information

9.1 Appliance recyclability and disposal

9.1.1 Recyclability

Our appliances are manufactured using a significant percentage of recyclable metals (such as stainless steel, iron, aluminium, galvanized sheet, copper, etc.), which can be recovered through the local recycling systems, in compliance with the regulations in force in the country of use.

National regulations regarding waste disposal may vary. Disposal of the appliance must therefore be carried out in accordance with the applicable legislation and the directives issued by the competent authorities in the country where the appliance is decommissioned.

The components of the appliance must be separated and disposed of in accordance with their material composition (e.g. metals, oils, greases, plastics, rubber, refrigerant gases, insulating boards and other insulating material, glass wool, LEDs, etc.) and in full compliance with applicable local and international waste management regulations.

Compressors may contain oils and refrigerants fluids - are special waste and has to be recycled on local bases regulations.

9.1.2 Procedure regarding appliance disposal and component / material recovery

This product should not simply be disposed of in the environment at the end of its life cycle; it is imperative instead either to dispose of it in accordance with local environmental regulations, or, preferably, to deliver it whole to an authorized recycling center.

All removed components, including doors and other structural parts, must be delivered together with the appliance to an authorized recycling or dismantling facility.

The dismantling/recycling center will apply state of the art technologies and methods available to them to effectively disassemble the products for best recyclability.

Note that printed circuit boards, electrical motors or other components identified in European Union legislation to be of high critical raw materials recovery potential need to be addressed specifically.

In case of doubts or questions, always refer to your reference customer care service.

Before disposing of the appliance, carefully inspect its physical condition and preservation state, checking for potential leaks of liquids or gases, as well as for broken parts that may pose hazards during handling and subsequent dismantling.



The symbol on the product indicates that this product should not be treated as domestic waste, but must be correctly disposed of in order to prevent any negative consequences for the environment and human health. For further information on the recycling of this product, contact the local dealer or agent, the customer care service or the local body responsible for waste disposal.

Note!

When dismantling the appliance, any marking, this manual and other documents concerning the appliance must be destroyed.

9.2 Disposal of packing

The packing must be disposed of in compliance with the current regulations in the country where the appliance is used. All the packing materials are environmentally friendly.

They can be safely kept, recycled or burned in an appropriate waste incineration plant. Recyclable plastic parts are marked as following examples.

	Polyethylene: • Outer wrapping • Instructions bag
	Polypropylene: • Straps
	Polystyrene foam: • Corner protectors



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