



DISHWASHERS

OPERATING INSTRUCTIONS MANUAL



DISHWASHER AND GLASSWARE

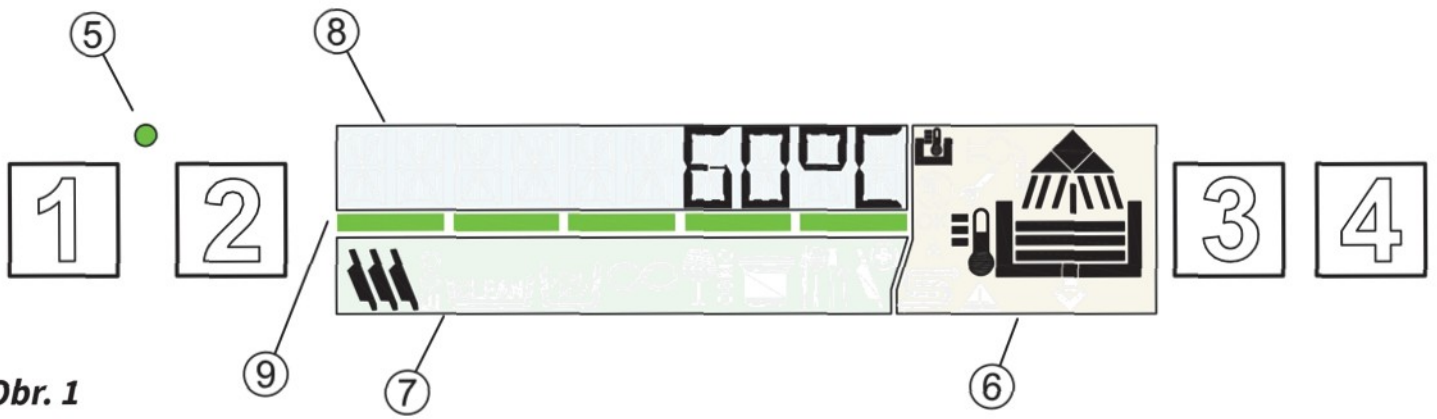
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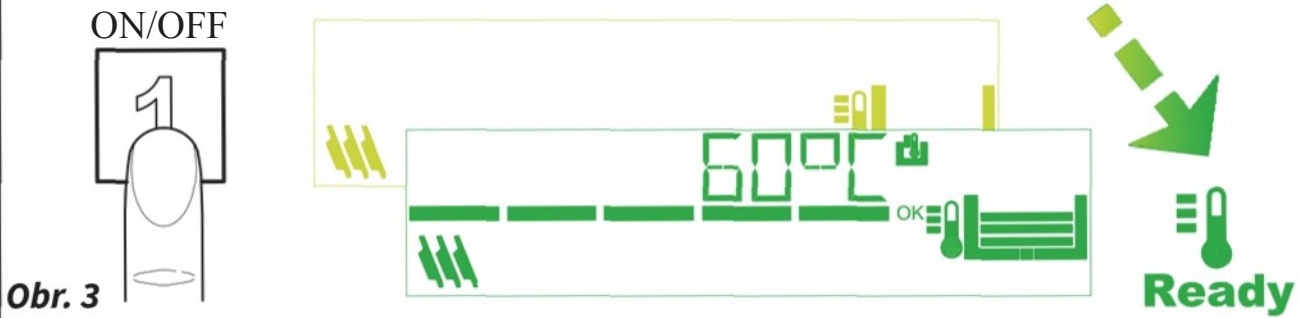
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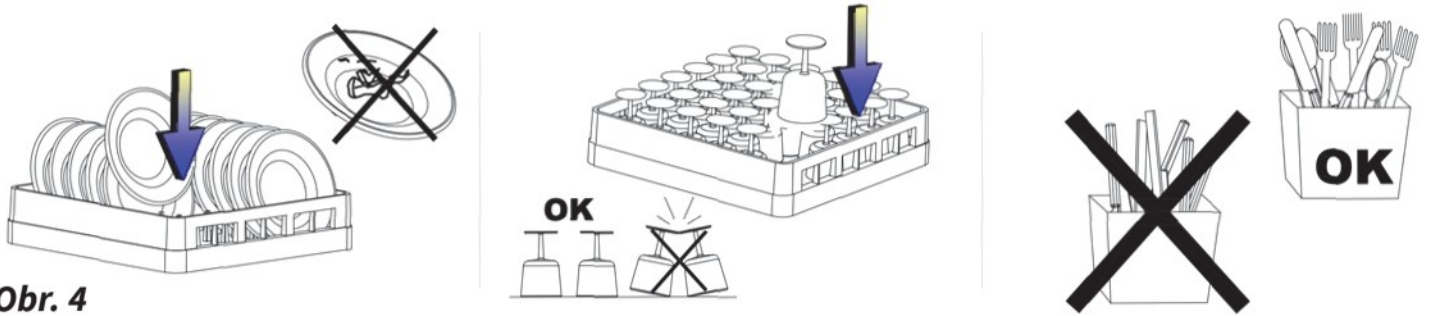
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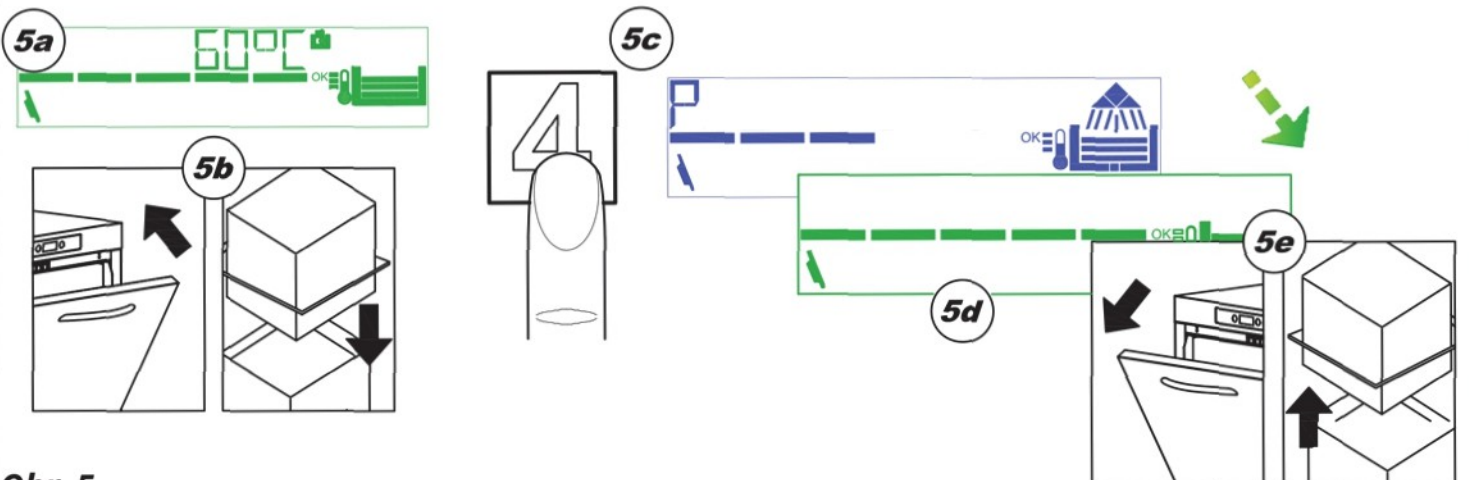
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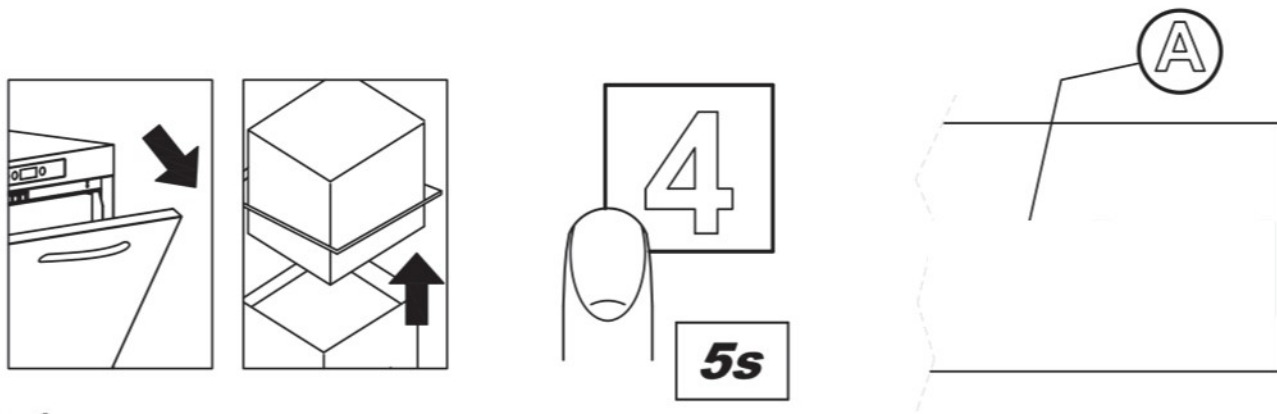
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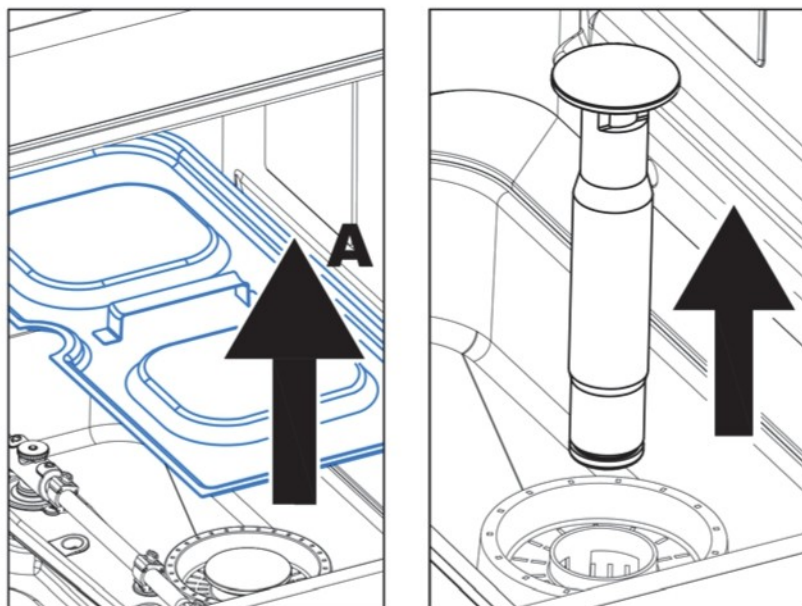
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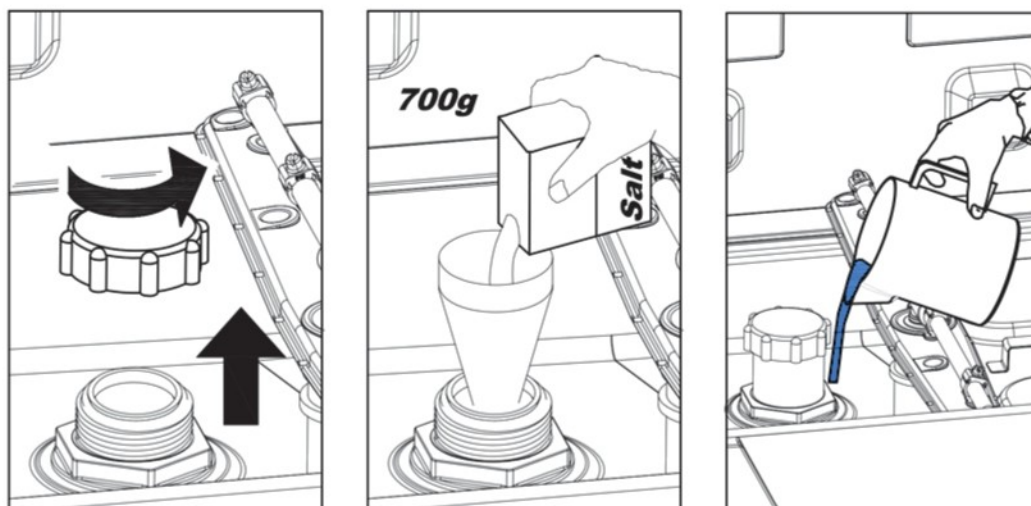
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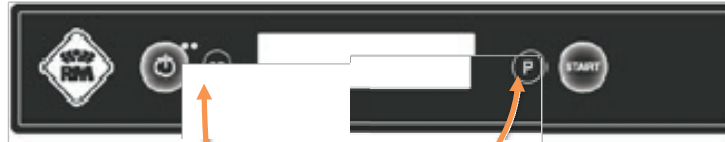
Obr. 8



After refilling the salt, empty the machine and rinse the tank by hand.

DŮLEŽITÉ





Washing programme	Display on displays	Washing programme	about time r	TT42			TT52					
				Washing temp eratur e	Rinse rinses	L/baske t	sec	Washing temp eratur e	Rinse tempera ture	L/bas ket		
ProSpeed		Light soiling	P	90	60	65	2,1	60	55	80	2,2	
ProFessional		Standard washing		120	60	65	2,1	90	60	82	2,4	
ProTemp		Heavy pollution		150	60	65	2,4	180	65	88	3,1	
ProSelf		Quick self-cleaning										
ProClean		Intensive automatic cleaning and draining		300	.	.	10	300	.	.	17	
ProDrain		Automatic discharge		90	.	.	.	120	.	.	.	
ProEco		Low temperature washing - blood and starch	SP					150	45	80	3,1	
ProNew		Quick water change		600	60	60	9,1	540	.	60	17	
ProLong		Continuous washing						600	60	82	3,1	
ProGlass		Glass and glasses						90	60	67	2,1	
ProPlates		Elevators		150	60	80	2,4					
ProCold		Cold water rinse		180	60	65 +	2,4 + 2,4					
ProWater		Glass and glasses with osmosis-treated water		120	65	75	2,1	120	65	70	2,6	
ProActive		Pans and black dishes						300	70	82	4,5	
ProSteel		Cutlery						360	72	88	3,1	
ProSan		Sanitation according to EN-ISO 15883-1/3						auto	70	85	3,1	

Washing programme	Display on displays	Washing programme	about time r	TT112			TT162				
				Temper ature	Tempera ture	L/baske t	sec	Temper ature	Tempera ture	L/bas ket	
ProSpeed		Light soiling	P	60	55	80	2,2	60	55	80	2,4
ProFessional		Standard washing		90	60	82	2,4	90	60	82	2,6
ProTemp		Heavy pollution		180	65	88	3,1	180	65	88	3,1
ProSelf		Quick self-cleaning									
ProClean		Intensive automatic cleaning and draining		300	.	.	24	300	.	.	32
ProDrain		Automatic discharge		120	.	.	.	120	.	.	.
ProEco		Low temperature washing - blood and starch	SP	150	45	80	3,1	150	45	80	3,1
ProNew		Quick water change		540	.	60	22	540	.	60	32
ProLong		Continuous washing		600	60	82	3,1	600	60	82	3,1
ProGlass		Glass and glasses		90	60	67	2,6	90	60	67	2,6
ProPlates		Elevators									
ProCold		Cold water rinse									
ProWater		Glass and glasses with osmosis-treated water		120	65	70	2,6	120	65	70	2,6
ProActive		Pans and black dishes		300	70	82	4,7	300	70	82	4,7
ProSteel		Cutlery		360	72	88	3,1	360	72	88	3,1
ProSan		Sanitation according to EN-ISO 15883-1/3		car	70	85	3,1	auto	70	85	3,1

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INSTRUCTIONS FOR USE

Ch. 1 - PREAMBLE



This manual contains important safety warnings regarding installation, use and maintenance.

Failure to follow the instructions in the enclosed documentation may compromise the safety of the appliance and will immediately void the warranty.

Warning:

Keep all documentation close to the appliance so that it is available to technicians and operators in charge of servicing it, and keep it in good condition in a safe place, along with extra copies for frequent notes.

The operator must read, understand, and become familiar with the contents of this manual before working with by or on the equipment.

This appliance is intended exclusively for professional dishwashing in harsh environments and must be installed, operated and serviced only by qualified persons in accordance with the manufacturer's instructions.

Warranty:

The manufacturer is not responsible for any damage or injury caused by failure to follow the instructions or improper use of the machine.

Failure to follow the instructions in the enclosed documentation may compromise the safety of the appliance and will immediately void the warranty.

Installation and repairs made by unauthorized technicians and the use of non-original spare parts will immediately void the warranty.

Storage:

Transportation and storage: -10°C to 55°C with peaks up to 70°C (no longer than 24 hours)

Ch. 2 - INSTALLATION

Proper installation is very important for the good operation of the appliance. Some of the information required to install the appliance is given on the type plate on the appliance panel, and a copy is given on the front page of this manual.



The appliance may only be installed by qualified persons authorised to carry out this work.

2.1 Unpacking

Check the condition of the packaging, and note any obvious damage on the shipping document. Remove the packaging and check that the appliance is in good condition; report any damage immediately to the dealer and shipping agent by email or registered letter with delivery.

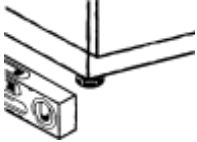
If the damage is such that it could compromise the safety of the appliance, do not install or use it, until it has been inspected by a qualified technician.



Packaging (plastic bags, Styrofoam, nails, etc.) is dangerous and must not be left within reach of children or pets.

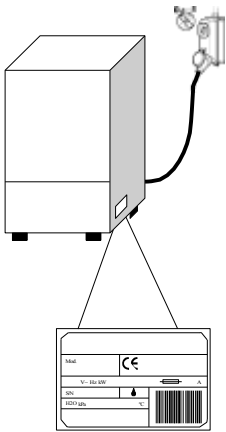
INSTRUCTIONS FOR USE

2.2 Location




- Check that there are no objects or materials at the installation site that can be damaged by steam from the appliance during operation, or if there are, make sure they are properly protected.
- Before placing the appliance, ensure that the electricity supply, water supply and connection to the sewerage system are in place.
- The floor or built-up unit must be dimensioned for the weight of the appliance
- To ensure that it is stable, balance the appliance using its four legs.
- The appliance is designed for fixed installations only, other approaches must be agreed and approved by the manufacturer.
- Before actually using the dishwasher, remove the protective film from its panels.

2.3 Electrical connection



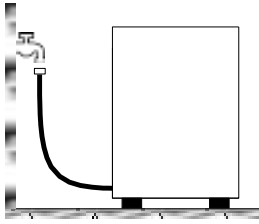
- The power supply shall be equipped with an omnipolar circuit breaker (main switch) to interrupt all contacts, including the neutral conductor, with a minimum 3 mm gap between contacts, and a thermal fuse or fuses which shall be rated for the rated capacity shown on the type plate of the machine.
- The main switch must be mounted on a power line near the equipment and can only be connected to one device.
- The mains voltage and frequency must match the data on the type plate.
- The installation must include a grounding system in accordance with applicable electrical safety codes to protect the operator and the appliance itself

- The electrical wiring that shall be the H07RN-F unit shall not be under tensile or compressive stress during normal operation or maintenance.
- The appliance must be connected to the equipotential system by means of the screw with the symbol. 
- The equipotential cable must have a cross section of 10 mm².
- Observe the polarities indicated on the wiring diagram.
- For further information, see the electrical wiring diagram.



Do not use multiple outlets, adapters, cables with insufficient cross-sections or type, or extensions that do not comply with the specified regulations for electrical installations.

INSTRUCTIONS FOR USE



2.4 Connecting the water

circuit The appliance must be connected to the water supply using a flexible hose. A shut-off valve (tap) must be installed between the water supply and the appliance solenoid valve.

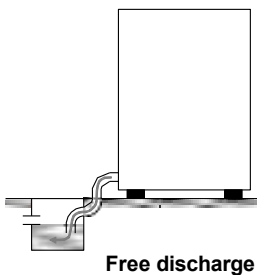
The tap must be close to the appliance.

- ☒ The water supply, temperature and pressure **must be in accordance** with the technical data on the type plate on the machine.

If the water hardness is greater than 14 F (8 dH), we recommend using an internal water softener (available on request). If the water hardness is greater than 35 F (19.5 dH), install an external water softener downstream of the solenoid valve.

- ☒ If the water has a very high residual mineral concentration with high conductivity, we recommend installing a demineralization system.

2.5 Connection to the waste pipe



Free discharge

- The waste pipework must consist of a free waste sump with a siphon suitable for the flow capacity of the drain hose supplied with the appliance. The hose shall be able to reach the sump without being stretched, restricted, kinked, squeezed, compressed or deformed in any other way.
- Drainage of the sump is based on gravity, so the waste sump must be lower than the base of the facility.



Max.
1m

- if the drain is not lower than the base of the appliance, you can use the pump version (available on request)
- In this case, the discharge connection must not be more than 1 m high.
- Always check that the drain is working properly and is not blocked.
- Any other solutions must be approved by the manufacturer in advance.

With pump (available on request)

2.6 Polish and detergent

- The polish and detergent are dispensed into the machine by the machine's built-in dispenser (depending on the model).
- The dosage is set by the installer depending on the hardness of the water and also calibrates the dosing devices themselves.
- Before calibrating them, fill the dispenser supply tubes with the appropriate product.
- The units are calibrated using adjustable screws or directly via the control panel.
- The liquid level in the container must be sufficient for penetration; do not allow complete draining or refilling with corrosive or impure product.

NEVER use CHLORINE or HYPOCHLORITE based detergents.

We recommend installing an automatic detergent dispenser.

INSTRUCTIONS FOR USE

Ch. 3 - RISKS AND IMPORTANT WARNINGS

- This appliance is intended solely for the uses for which it was designed. Any other use is misuse and is dangerous.
- The specialist technician responsible for the installation of the appliance must instruct the user on its operation and any related safety measures, including the conduct of practical demonstrations.
- Only the manufacturer or an authorised service centre with qualified personnel can work on machines, even in the event of a breakdown, using original spare parts.
- Always switch off or disconnect the appliance from its electrical supply and water supply before servicing, repairing or cleaning.
- The equipment **MUST NOT** be used by persons not trained in its use.
- The device **MUST NOT** be left under power when not in use.
- **NEVER** open the device quickly if it has not yet completed its cycle.
- **NEVER** use the device without the barriers fitted.
- **NEVER** use the machine to wash items of any shape, size or material that are not guaranteed to be washable in this machine or that are not in good condition.
- **NEVER** use the equipment, or any of its assemblies, as a step or support for persons, property or animals.
- **NEVER** overload open doors on front-loading appliances that are rated for only support a basket loaded with dishes.
- **NEVER** put your bare hands in the washing solution.
- **NEVER** turn the appliance over after it has been installed.
- If you notice any malfunction or fluid leakage, immediately disconnect the power supply and turn off the water.
- Do not install the dishwasher near heat sources with temperatures above 50°C.
- **NEVER** expose the dishwasher to the weather (rain, direct sunlight, etc.)
- The dishwasher must not be installed outdoors without proper covering.
- Never run a wash program without an overflow in the bath (where applicable).
- Never place magnetic objects near the device.
- Do not use the top of the dishwasher as a table or support.
- The installer is responsible for checking and ensuring that the earthing system is fully functional.
- At the end of testing, the installer must issue a written statement that the equipment has been installed and tested in accordance with established codes and best practices.
- **Do not change the** position or tamper with the elements that make up the device, as these operations could compromise its safety.
- Weighted sound pressure level $L_{pA} \leq 70$ dB(A).

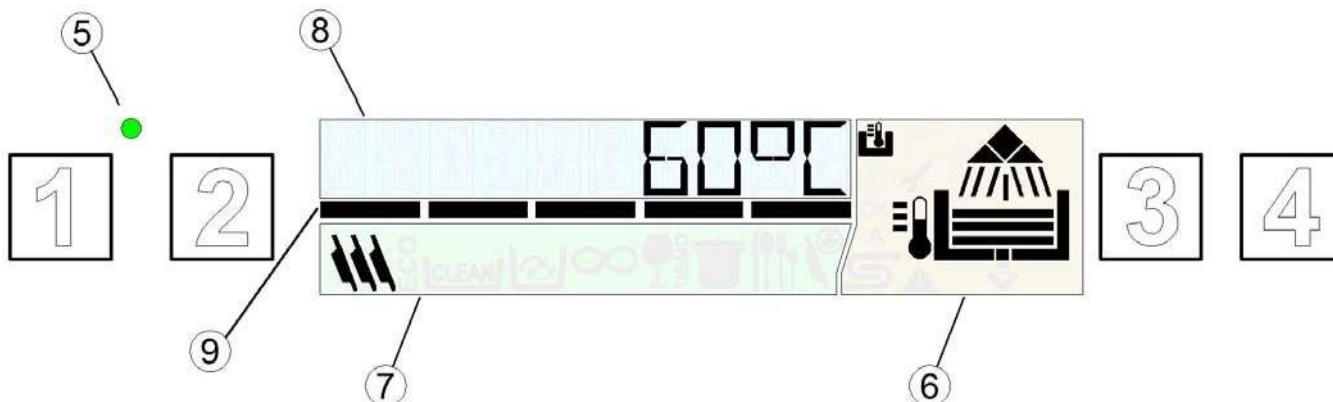
3.1 Normal operating conditions

Ambient temperature: 40°C max. / 4°C min.
(average 30°C) Altitude: up to 2000 metres
Relative humidity: max. 30% at 40°C / max. 90% at 20°C

INSTRUCTIONS FOR USE

Ch. 4 - USE OF EQUIPMENT

4.1 Graphical interface



See **Fig. 1**:












1	ON/OFF BUTTON	6	MACHINE STATUS INDICATOR
2	BUTTON FOR SELECTING SPECIAL PROGRAMMES	7	WASHING CYCLE INDICATOR
3	PROGRAMME SELECTION BUTTON	8	TEXT DISPLAY
4	START BUTTON	9	TIMELINE
5	LED INDICATOR LIGHT		

Colour codes and operating states

See **Fig. 2**:

	<p>Green (Fig. 2a)</p> <ul style="list-style-type: none"> -Equipment ready
	<p>Blue (Fig. 2b)</p> <ul style="list-style-type: none"> -Washing cycle in progress
	<p>Yellow (Fig. 2c)</p> <ul style="list-style-type: none"> - Equipment in preparation - No washing allowances - No salt (only version with built-in water softener)
	<p>Red (Fig. 2d)</p> <p>Serious malfunction.</p> <ul style="list-style-type: none"> - Operation restricted or not possible: check the error code and contact technical assistance if necessary.

INSTRUCTIONS FOR USE

Washing phase			
During operation, the display in area (6) will indicate the different stages of the wash cycle:			
	Filling		Washing
	Heating Reached operating level		Rinsing
	Achieved operating temperature		Discharge
Function symbols			
	Appears when the Boiler temperature on display		Appears when the bath temperatures on display
A	Auto start activated		Regeneration system switched on
	Defect: possible limited operation		Fault: operation not possible








4.2 Quiescent state

- Turn on the main electrical switch.
- Open the external water tap.
- When the device is in standby mode, the display is off, and the **CLIDE STATUS LED (5)** is red.

4.3 Starting and selecting a program











- Check that the spray arms and filters are correctly positioned.
- Check that an overflow is used (if required).
- Check the detergent and rinse aid levels in the dispensers.
- Press the button (1) to start the device, the **CONTROL LED (5)** will light up green.
- During the filling phase, the display will turn yellow
- Once the optimum conditions have been reached, the **DISPLAY** will turn green - the device is ready.
- The symbol on the display indicates the selected program

Use the **PROGRAM SELECT** button (3) to select between the following cycles:

	Dishwashers	Glass washers	
Standard Programmes			ProSpeed Short washing programme for lightly soiled dishes.
			ProFessional Medium washing programme for medium soiled dishes.
			ProTemp Long wash programme for very dirty dishes.
	USE		ProDrain Discharge cycle.
			ProClean The discharge and self-cleaning cycle must be used at the end of the working day.

INSTRUCTIONS FOR USE

You can choose between the following cycles using the button (2) **SPECIAL PROGRAMME SELECTION**:

Special Programmes		ProEco
		It reduces energy consumption by washing at lower temperatures and with reduced water consumption than conventional programmes, and a good cleaning result is achieved through prolonged mechanical washing operation.
		ProNew
		It is recommended when you want to wash dishes with a total change of water in the wash tub, so it is suitable for consecutive washing of particularly greasy and dirty dishes. A complete bath water change requires a longer wash cycle.
		ProLong
		Continuous washing. This cycle can be stopped at any time by pressing the Start button. After a short pause, the rinsing phase starts. The cycle ends automatically after 12 minutes.
		ProGlass
		Suitable for washing glass of any shape and type. This program washes with low temperature rinsing and requires a long drying time.
		ProWater
		Cycle recommended for crystal glassware; can only be used in combination with a reverse osmosis system.
	ProActive	
	Suitable for washing very dirty dishes. This programme includes 2 washes and 2 rinses.	
	ProSteel	
	Suitable for washing forks, spoons, knives and all kinds of other cutlery. This programme takes longer than other programmes and uses water at a higher temperature.	
	ProCold	
	Special programme for glassware with cold rinse water.	
	ProPlate	
	Plate programme for glass washers.	
	ProSan	
	It is recommended for washing dishes, which must also be disinfected. This program controls the washing temperature and calculates the time constant A0. The program ends when the value of A0 equals 30. The length is variable, but is generally around 20 minutes and the washing temperature reaches about 70°C. NOTE If you need an A0 value other than 30, contact an authorized technician to change the software for your device.	

These special programs that are available may vary by device type and model

INSTRUCTIONS FOR USE

4.4 Filling the socket

See **Fig. 4**

, follow the rules described below to ensure that the dishwasher functions properly:

- Use a suitable drawer, fill it without overloading and without overlapping dishes.
- Always wipe dishes before putting them in the dishwasher, do not put dishes with dry or solid residues in the dishwasher.
- Place the empty dishes in the compartment with the bottom facing up.
- Place plates and similar utensils in the slanted compartment with the inner surface facing upwards.
- Place the cutlery in the cutlery basket with the handle facing downwards.
- Do not put silverware and stainless steel cutlery in the same cutlery basket, as silver will tarnish and can corrode the steel.
- Wash dishes immediately after use to prevent any food residue from hardening and sticking to the dishes.
- Use only sturdy, dishwasher-safe cookware.

4.5 Starting the cycle

- To start the program, press the **button (4), START**, during the wash cycle displays **TIME LINE (9)** cycle progress, and the display is coloured blue (**Fig. 2b**), showing the name of the preset program.
- At the end of this cycle, the display will turn green and show the word **END**.
- When drying quickly, remove the tray from the dishwasher as soon as the cycle is finished.
- To end the wash cycle early, press the **START button (4)** again.

4.6 Automatic cycle start

This function allows you to start the cycle by simply closing the door (or lid) without pressing any button. To activate this function, proceed as follows:

The letter "**A**" on the display indicates that the function is activated.

- If it is not available by default, the function must first be activated via the Settings menu.
- To deactivate this function, press the **START button (4)** for a few seconds with the appliance door open. This deactivation can only be applied for one single cycle.

NOTE: For the lidded version, the auto-start function will be automatically activated after the first duty cycle; subsequent cycles will be automatically activated when the lid is closed. This operating mode is indicated by the letter "**A**" on the display.

4.7 Information display

- By holding down the **START button (4)** for a few seconds, you can display the boiler temperature, the bath temperature and the number of cycles performed by the dishwasher in the given order. This information can be displayed both before and during the wash cycle, and will be displayed only temporarily.
- By holding down the **PROGRAM SELECT button (3)** for a few seconds, you can display the boiler temperature, the bath temperature and the number of cycles performed by the dishwasher, in that order.
- This function can be activated by holding the **PROGRAM SELECT button (3)** down for a few seconds.

4.8 Turning off the dishwasher.

- Switch off the dishwasher by pressing the **ON/OFF button (1)**; only the **STANDBY MODE CONTROL (5)** remains lit, indicating that the mains power is connected.

NOTE: If the dishwasher is left with the door open for more than one hour, it will automatically will shut down.

INSTRUCTIONS FOR USE

4.9 Removing the built-in filter

- Move the washing and rinsing arm at right angles to the edge of the door.
- Lift each semi-filter using the corresponding handle (**Fig. 7**).

4.1 Emptying the dishwasher

4.10.1 Appliances without drain pump

- 5 Turn off the dishwasher.
- 6 Remove the built-in filter (**Fig. 7A**).
- 7 Pull out and remove the overflow pipe (**Fig. 7**).
- 8 Wait until the bath is completely empty.
- 9 If necessary, pull out the bath filter and clean it.

4.10.2 Appliances with drain cycle (*optional add-on)

- With the unit switched on, press the **(3) PROGRAM SELECTION** button to select the desired program
- ProClean or ProDrain.
- Press the **START** button **(4)** to start the drain and self-cleaning program.
- At the end of the drain cycle, the dishwasher will switch itself off, only the **STANDBY MODE LED (5)** will remain lit, indicating that the mains power is connected.

4.11 Resin regeneration (*optional add-on)

For washers with an embedded water softener, the "**REGENERATION SYSTEM ON**" symbol indicates that the machine is undergoing a resin regeneration cycle and that the current wash program could be longer.



N.B. Do not switch off the dishwasher when the regeneration cycle is in progress.

For dishwashers equipped with a water softener, when the "No Salt" warning appears, you should add salt to the appropriate reservoir as follows:

- Remove the basket from the dishwasher.
- Remove the built-in filter (**Fig. 7**).
- Unscrew the cap on the salt tank (**Fig. 8**).
- Pour in approx. 700 g of regeneration salt (1 or 2 mm granulated table salt without additives) using the funnel provided.
- Close the reservoir tightly.
- The '**NO SOIL**' warning will disappear within a few minutes.

4.12 Equipment with external water softener

For devices equipped with an external water softener, after a certain number of cycles, the display shows the word "SERVICE", that is, it is necessary to regenerate the resin for the water softener.

This service alert remains even when the device is switched off. To cancel it, press and hold all 4 buttons for at least 5 seconds with the machine switched off and the door open.

INSTRUCTIONS FOR USE

4.13 End of shift

- Always drain the dishwasher at the end of the day, as described in the Draining the dishwasher section.
- Disconnect the power supply using the main switch and close the external water tap.
- Perform routine maintenance and cleaning of the equipment as described in the Maintenance section.
- If possible, leave the door half open to prevent the build-up of unpleasant odours inside the appliance.

Cap. 5 - MAINTENANCE

5.1 General rules



Before carrying out any maintenance, drain all water, disconnect the power supply and close the water supply tap.

Do not use water under pressure - it could damage electrical equipment.

When it is cold, wash only the body of the dishwasher, and only with products specifically designed for steel.

If there is a risk of ice forming, drain the water from the boiler and wash pump.

5.2 Cleaning

To keep the equipment in good working order, it must be regularly maintained as explained below. It is recommended that sanitation treatments are carried out regularly using suitable non-corrosive commercial products.

5.3 Cleaning the filter unit

Do this cleaning at the end of the day or when you see that the filters are dirty:

1. Remove and clean the baskets.
2. Empty the tub as explained in the "Draining the Equipment" section.
3. Remove and thoroughly clean all filters.
4. Do not use abrasive products to clean the tub.
5. When cleaning is complete, put back all removed parts.

5.4 Cleaning the

arms The wash and rinse arms are easily removable to clean their nozzles and prevent clogging/hardening. Proceed as follows (**Fig. 9**):

- Remove the washer arms by unscrewing their fixing nuts.
- Wash all parts under a stream of running water and clean the nozzles thoroughly with a toothpick or pointed tool if necessary.
- Clean the pivot pins of the arms inside the machine and wash and rinse the discharge area with water.
- Refit the arms and check that they rotate freely.

INSTRUCTIONS FOR USE

Ch. 6 - SAMO-DIAGNOSTICS

The device is equipped with a self-diagnostic system that registers and alerts on a number of faults.

<i>Glitch</i>	<i>Description and possible measures</i>
Er01	No rinsing. The rinse cycle was not performed correctly. Make sure the rinse nozzles are clean.
Er02	No discharge. Water has not been discharged or has been discharged incorrectly. Check that the drain line is not bent or kinked, and that the siphon and filters are not clogged. For equipment fitted with an overflow pipe, remove this pipe before starting of the discharge cycle.
Er03	Rinse temperature set incorrectly. Boiler temperature was not reset at the time of setting during the wash cycle. Switch the appliance off, then switch it on again and start a new cycle.
SAFE Er04	Fault when filling water into the tank. Make sure that the pipes are connected correctly and that the tap is open. Check for overflow. Turn the dishwasher off, then back on, and refill.
Er05	Tank thermometer fault. (Probe open) The device did not read the tank temperature. Switch the dishwasher off, then switch it on again.
Er06	Tank thermometer malfunction (Electrical short in probe) The device did not read the tank temperature. Switch the dishwasher off, then switch it on again.
Er07	Boiler thermometer malfunction. (Probe open) The device did not read the temperature value boiler. Switch the dishwasher off, then switch it on again.
Er08	Boiler thermometer malfunction. (Electrical short in probe) The device did not read the value boiler temperatures. Turn the dishwasher off, then back on.
Er09	Loading boiler time: boiler is not filled. Cannot perform a rinse cycle. Check that the water supply tap is open. Switch the appliance off, then switch it back on and start a new cycle.
Er21	Insufficient rinsing: not rinsing with the correct amount of water, make sure the rinsing nozzles are clean. This error will not stop the equipment from operating.
Er22	Tank temperature set incorrectly. The tank temperature was not reset at the time of setting during the wash cycle. Switch the machine off, then switch it on again and start a new cycle.
SAFE Er5F	Electro-mechanical safety devices: the boiler or bath safety thermostats have tripped or the bath safety pressure switch has tripped.
SAFE Er5L	Safety level switch : Incorrect water level in the tank.
dr t	Dirty filter: incorrect water level in the tank due to a dirty filter or an incorrectly fitted overflow.
<p>WARNING! Switching the dishwasher off and on again will "reset" the signals; if the problem persists after following the instructions, contact an authorised service centre.</p>	

INSTRUCTIONS FOR USE



The following settings must only be configured by a qualified technician.

The following parameters can be set during installation after accessing the Settings menu as follows:

- The device is in standby mode with the door open.
- Press simultaneously buttons **1** and **2** (**ON/OFF** and **SPECIAL PROGRAM SELECTION**) for 5 seconds and enter **KEY 12** (buttons **3** and **4** to change the parameter, and button **1** to confirm).
- Then press the **(1) ON/OFF** button repeatedly to scroll through the following headings, enabling activation and/or changing them using the **(3)** and **(4)** buttons (the changed parameter is in memory without being confirmed). The list of parameters may vary according to the type of dishwasher.

Language	Choice of language
Boiler settings	Boiler temperature setting for programs. For versions with atmospheric boiler (rinse pump) are different settings for each program (b1 - b2 - b3).
Tank settings	Temperature control of the bath for programs. Versions with a rinse pump have for each program different settings (t1 - t2 - t3).
ThermoStop	It enables the Thermostop function, which guarantees the correct rinsing temperature.
Energy saving	Enables the Energy Saver function, which provides energy savings when the dishwasher is switched on but not in use.
Hand detergent	Manual operation of the detergent dispenser
Hand rinse polish	Manual operation of the rinse aid dispenser
Detergent dosage	Detergent dosing time
Dosage rinsing polish	Rinsing polish dosing time
Water hardness	Adjust the hardness of the supplied water; for devices with a built-in water softener, adjust according to the measured water hardness.
External softener cycles	Cycle counter setting and activation to enable Service Alerts for external water softeners. Service warning can be cancelled by holding all 4 buttons down while with the appliance switched off and the door open.
Hand pump rinsing	Manual operation of the rinse pump
Manual discharge	Manual operation of the discharge pump
Activating Autostart	Automatic activation of auto start
Cycle counter	Cycle counter

Once all necessary parameters have been set, exit and save the changes by simply pressing and holding button **1** for a few seconds until the display turns off.

INSTRUCTIONS FOR USE

7.1 Setting the water hardness for the built-in water softener

The conversion table below provides the relationship between the German grades and the French grades for setting the device.

Measured hardness	
°fr	°dGH
0 ÷ 20	0 ÷ 11
21 ÷ 25	12 ÷ 14
26 ÷ 30	15 ÷ 17
31 ÷ 35	17 ÷ 20
36 ÷ 40	20 ÷ 22
41 ÷ 45	23 ÷ 25
46 ÷ 50	26 ÷ 28
51 ÷ 55	29 ÷ 31
56 ÷ 60	31 ÷ 34

Ch. 8 - REMOVAL

Our devices do not contain materials that require special handling.



(Applicable in the EU and in countries with segregated waste)

This mark on the product or its documentation indicates that the product must not be disposed of with household waste when it reaches the end of its life. To avoid environmental damage or health risks due to improper disposal, keep this product separate from other waste and recycle it to promote sustainable use of materials.

Home users are asked to contact their retailer or local authority for information on waste separation, disposal and recycling options for this type of product.

Business users are asked to contact their suppliers and check the terms of the purchase agreement.

This product must not be scrapped with other commercial waste.

Ch. 9 - ENVIRONMENT

ENVIRONMENTAL PROTECTION

Using your dishwasher correctly can improve its environmental footprint if these simple rules are followed:

Wash only when the baskets are full.

Switch off the dishwasher when it is not in use. Keep the dishwasher closed when it is idle. Use the programmes appropriate for the soiling.

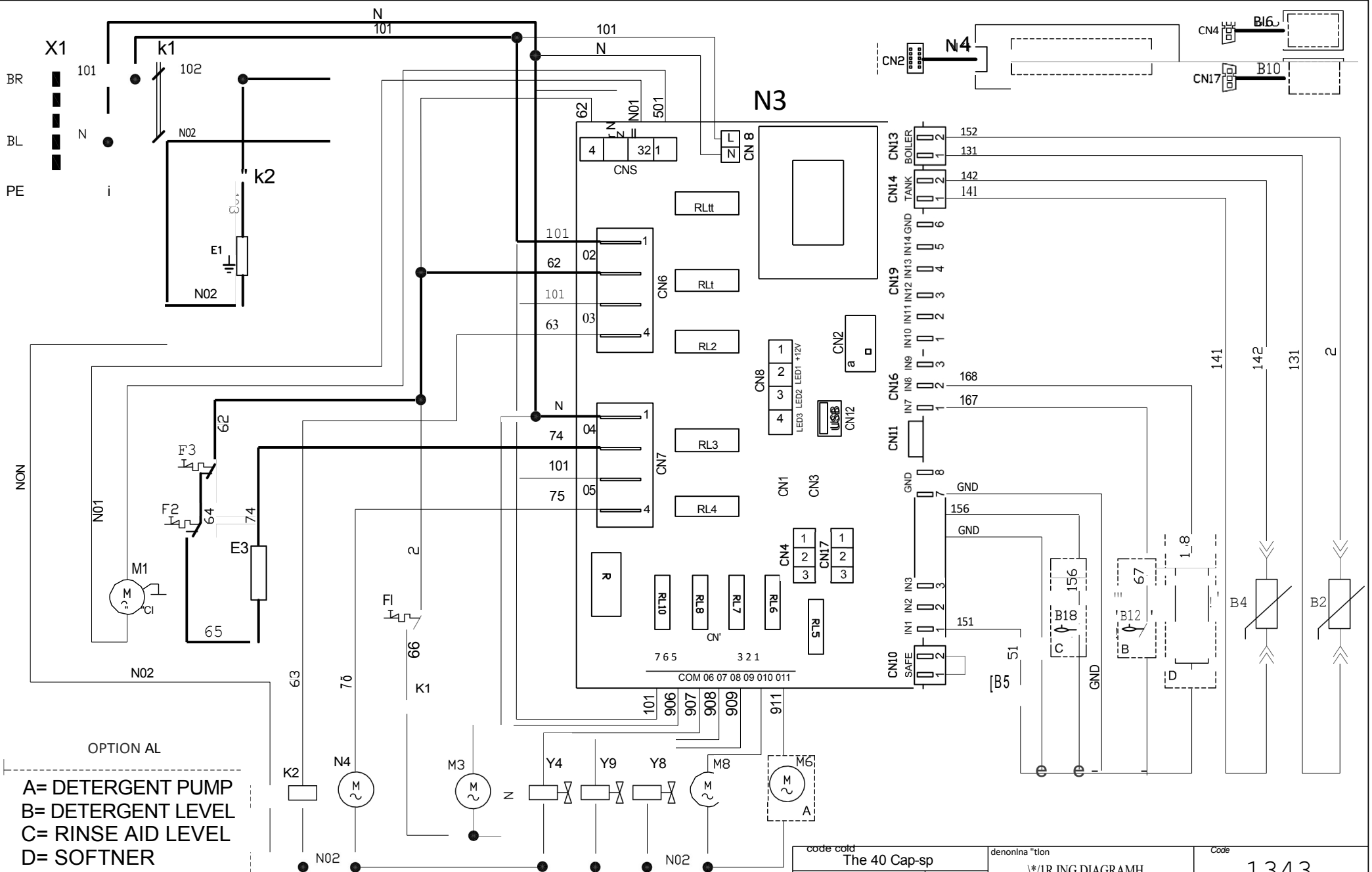
Supply hot water to the dishwasher if it is heated by gas.

Ensure that the water discharged drains into a suitable drain.

Do not exceed the recommended dosage of detergent.

The manufacturer reserves the right to modify the electrical, technical and aesthetic characteristics of this appliance and to replace any part of it without prior notice as it deems necessary to offer a reliable product with a long service life and advanced technology.

TT(A) 2 ABT



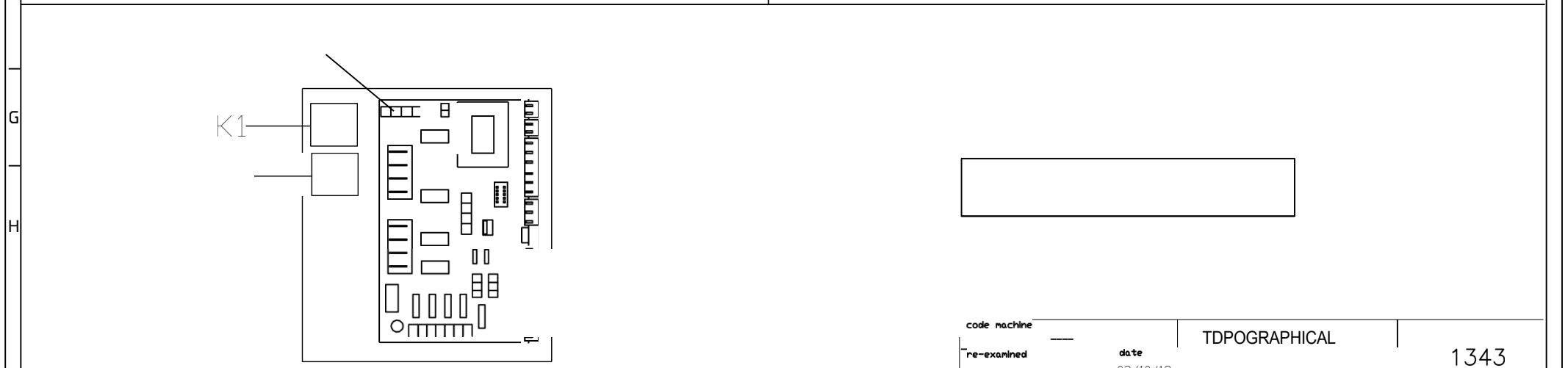
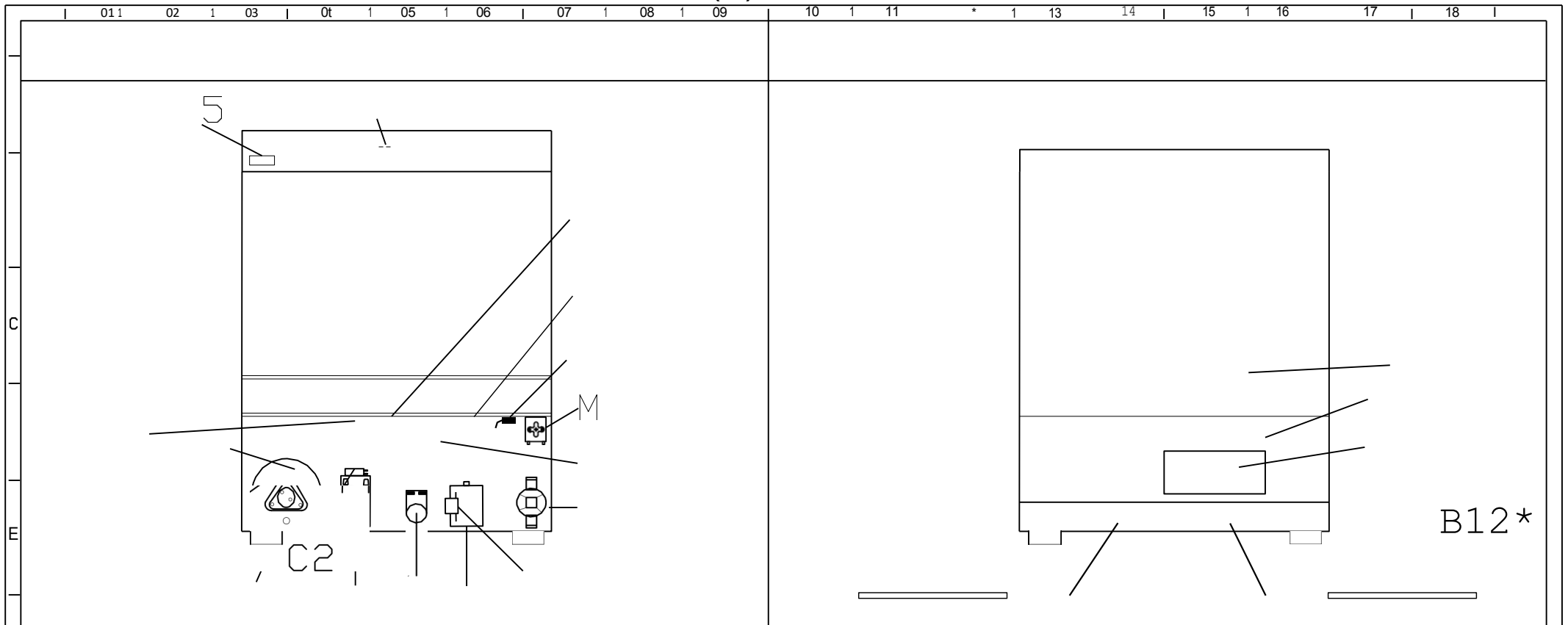
OPTIONAL

A= DETERGENT PUMP
 B= DETERGENT LEVEL
 C= RINSE AID LEVEL
 D= SOFTNER

n° MODIFICA	DESCRIZIONE	SOSTITUISCE	DATA
-1	Neutro CNS modificato		

code cold	The 40 Cap-sp	denominazione	*/IR ING DIAGRAMH		Code	1343	
examinazione	re-	02/10/19	dishwasher	n°/file	mod		
Inspected by	Bertolini	date	This is N° bla l	Nex l bla l	1343	-	
validated by	deme	02/10/19	a				

TT(A) 2 ABT



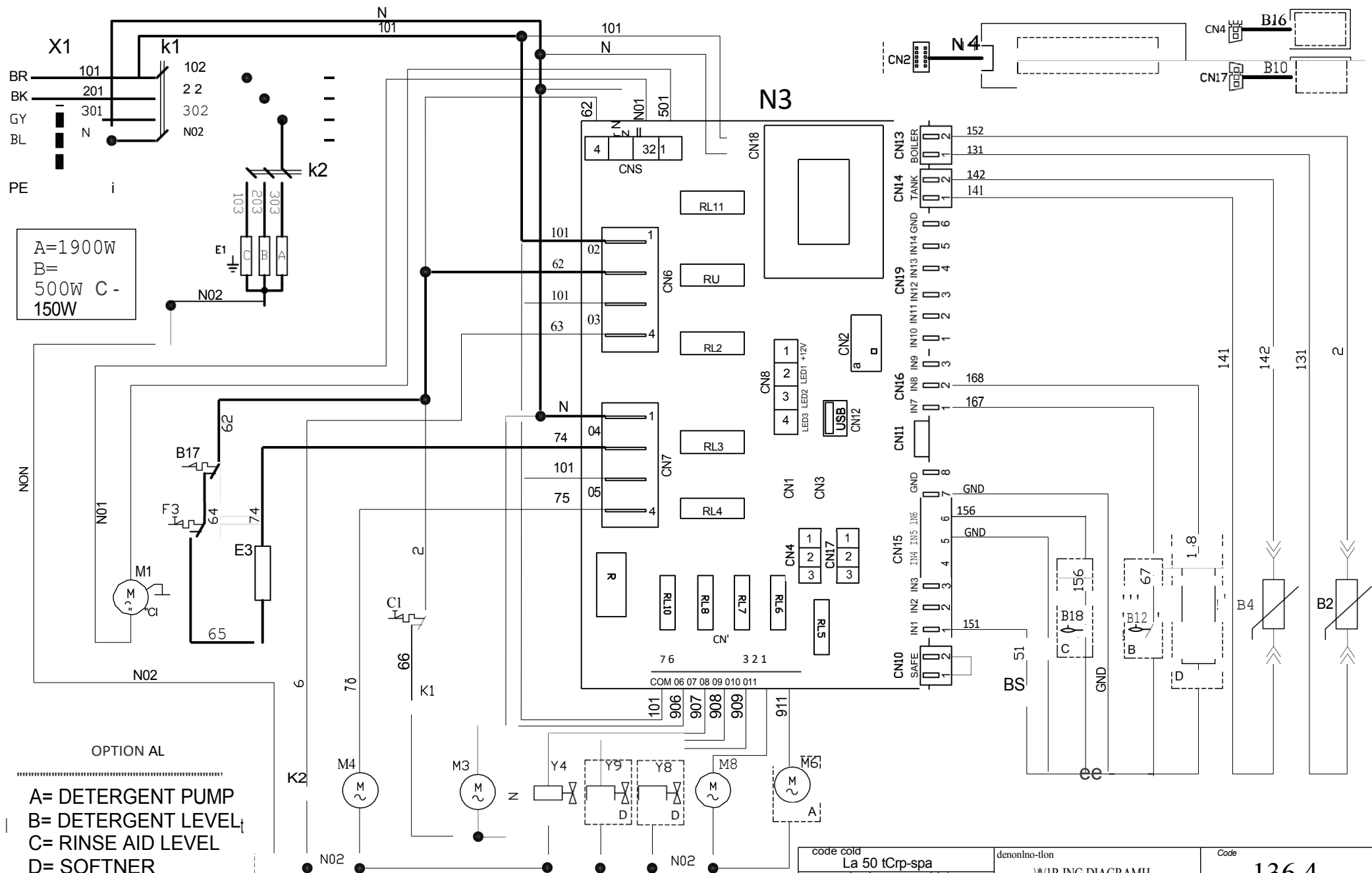
n° MODIFICA	DESCRIZIONE	SOSTITUISCE	DATA

code machine	TDPOGRAPHICAL			1343
re-examined	date	dnh-eshez	n°/he	mod
validated by	date	total blat	N°blat	Next blat
	02/10/19	3	2	1343T -1

TT(A) 2 ABT

B2	Boiler probe	Temperaturfühler Durchlauferhitzer	Sonde surchauffeur	Probe boiler	Palpador de temperature calderin	Probe de temperature caldera
B4	Tank probe	Tanktemperaturefühler	Probe cuve	Vasca probe	Palpador de temperature en la cuba	Tank temperature probe
B5	Door switch	Reed- Türsicherheitkontaktschalter	Micro contact de porte	Micro porta	Interruptor de puerta	Micro-interruptor porta
B10	Tank level control	Tankniveauschalter	Pressostat de cuve	Controllo livello vasca	Interruptor del nivel en la cuba	Tanque level interruptor
B12	Detergent level	Spülmittelniveauschalter	Contrôle niveau déterergent	Controllo livello detergente	Comprobación de nivel detergente	Interruptor de nivel detergente
B16	Booster level control	Nachspülboiler Niveauschalter	Pressostat niveau surchauffeur	Controllo livello boiler	Control nivel calderin	interruptor de nivel do boiler
B18	Rinse aid level	Stufe Glänzmittel	Contrôle niveau produit de rinçage	Controllo livello brillantante	Comprobación de nivel abrillantador	Interruptor de nivel solução para brilho
C1	Wash pump noise filter	Fünkenstörfilter Umwälzpumpe	Condensateur pompe de lavage	Condensatore pump lavaggio	Condensador bomba de lavado	Condenser bomb lavagem
C2	Rinse booster pump noise filter.	Fünkenstörfilter Drucksteigerungspumpe	Condensateur pompe auxiliaire	Condensatore pump ausiliaria	Condensador bomba de aumento presion	Condensador bomba do aumento de pressão
E1	Boiler heating element	Heizkörper Durchlauferhitzer	Resistance du surchauffeur	Resistenza boiler	Resistencia del calderin	Resistências caldera
E3	Tank heating element	Tankheizung	Resistance de cuve	Resistenza vasca	Resistencia de la cuba	Resistência cuba
F1	Boiler safety thermostat	Durchlauferhitzer Temperaturbegrenzer	Thermostat securite surchauffeur	Thermostat sicurezza boiler	Limitador de temperatura del calderin	Rgolador de temperature caldera
F2	Tank safety thermostat	Tanktemperaturbegrenzer	Thermostat securite cuve	Thermostat sicurezza vasca	Limitador de temperatura del deposito	Rgolador de tanque temperature
F3	Tank safety thermostat	Tanktemperaturbegrenzer	Thermostat securite cuve	Thermostat sicurezza vasca	Limitador de temperatura del deposito	Rgolador de tanque temperature
K1	Main relay	Relais EIN / AUS	Relais Marche / Arrêt	Relè di linea	Relé suministro de corriente	Relé de alimentação elétrica
K2	Boiler heating element relay	Durchlauferhitzer Heizkörper Relais	Relais resistance surchauffeur	Relè resistenza boiler	Relay resistance Calderin	Relé de resistência de caldeira
N	Salt level control	Salz höhe controls	Contrôle niveau de sel	Controllo livello sale	Controlor nivel de sal	Sal nivel controlo
M1	Wash pump motor	Umwälzpumpe engine	Moteur pompe lavage	Motor pump lavaggio	Motor bomb lavado	Motor bomba de lavagem
M3	Drain pump motor	Laugenpumpe engine	Moteur pompe vidange	Scarico pump motor	Motor bomb de desagüe	Motor bomba de esgoto
M4	Rinse booster pump motor	Motor Drucksteigerungspumpe	Auxiliary pump motor	Motore pompa ausiliaria	Motor bomba para aumentar la presión	Motor bomba de enxágue
M6	Detergent pump motor	Dosiergerät Reiniger	Moteur pompe produit lavage	Dosatore detergente	Dosificador por el detergente	Doseador de detergente
M8	Rinse aid pump motor	Dosiergerät Glänzmittel	Moteur pompe produit de rinçage	Dosatore brillantante	Dosificador abrillantador	Doseador da solução para brilho
N3	Electronic control	Programmschaltwerk Elektronikmodule	Carte controle cycle	Scheda controllo ciclo	Electrónica de contróló ciclo	Módulo electrónico temporizador de ciclo
N4	Auxiliary electronic control	Zusatzelektroplatine	Carte électronique auxiliaire	Scheda controllo ausiliaria	Electrónico de control auxiliar	Placa eletrônica auxiliar
Y4	Fill/hot rinse solenoid valve	Electromagnetventil Füllen / Klarspülung warm	Electrovanne remplissage	Elettrovalvola carico / risciacquo caldo	Válvula magnetica de entrada / enjuague caliente	Válvula magnetica de entrada / enxague quente
Y8	Regeneration solenoid switch valve	Regenerieren Elektromagnet wechselventil	Electrovanne échangeur régénération	Elettrovalvola scambiatrice di rigenerazione	Válvula cambiadora de regeneración	Válvula cambista de regeneração
Y9	Regeneration solenoid switch valve	Regenerieren Elektromagnet wechselventil	Electrovanne échangeur régénération	Elettrovalvola scambiatrice di rigenerazione	Válvula cambiadora de regeneración	Válvula cambista de regeneração

TT 52 TS ABT



A=1900W
 B=
 500W C -
 150W

OPTION AL

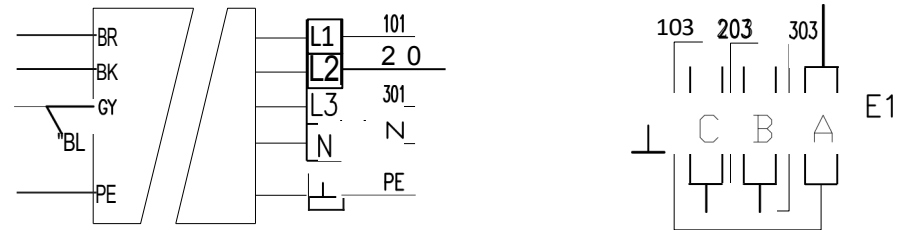
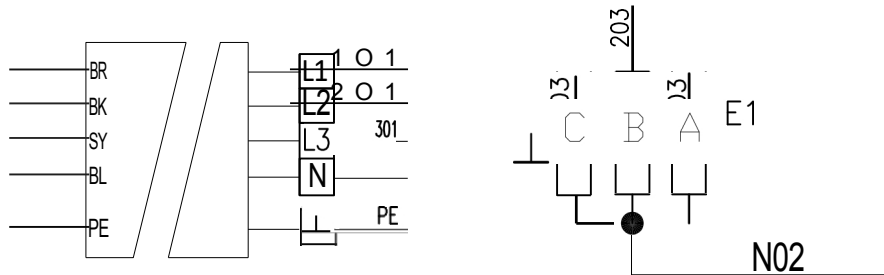
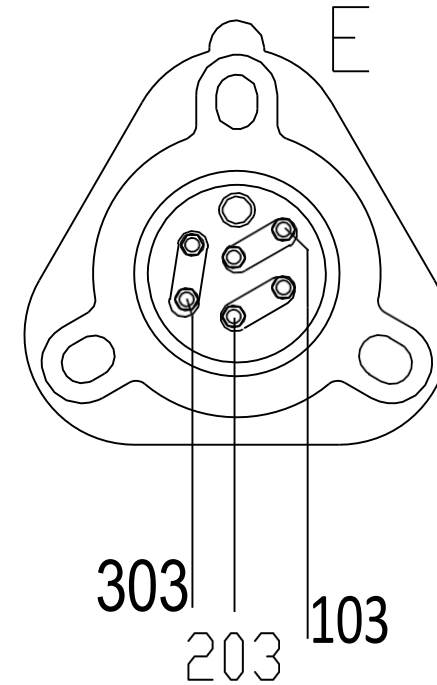
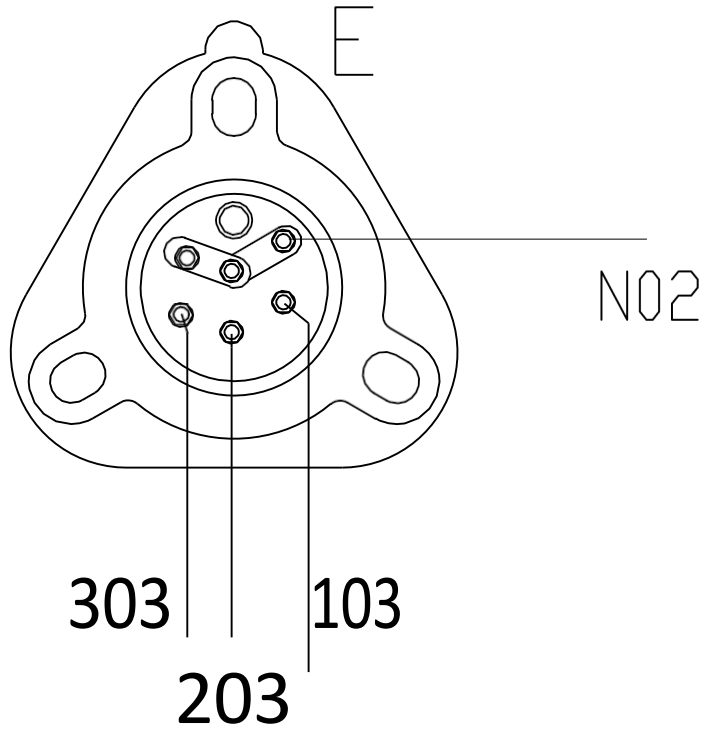
A= DETERGENT PUMP
 B= DETERGENT LEVEL
 C= RINSE AID LEVEL
 D= SOFTNER


code cold	La 50 tCrp-spa	denonno-tlon	Code	
re-examined	da'e 06/02/17	*/IR ING DIAGRAMH		1364
Inspected by	d-te	dishwasher	n°/file	mod
validated by	deme 06/02/17	This is N°bla l < i	Nex l bla l	1364

n° MODIFICA	DESCRIZIONE	SOSTITUISCE	DATA

400v 3N 50hz 6.77I<w 16A

230v 3 50hz 6.77I<w 20A



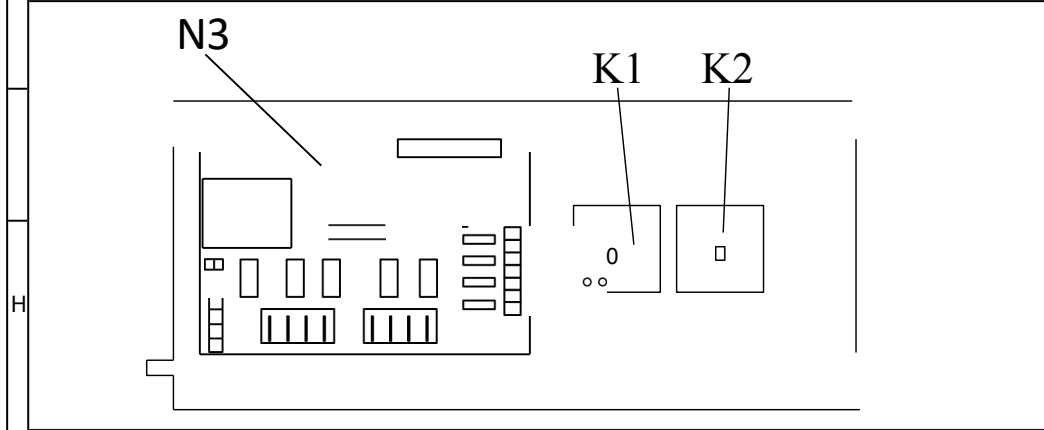
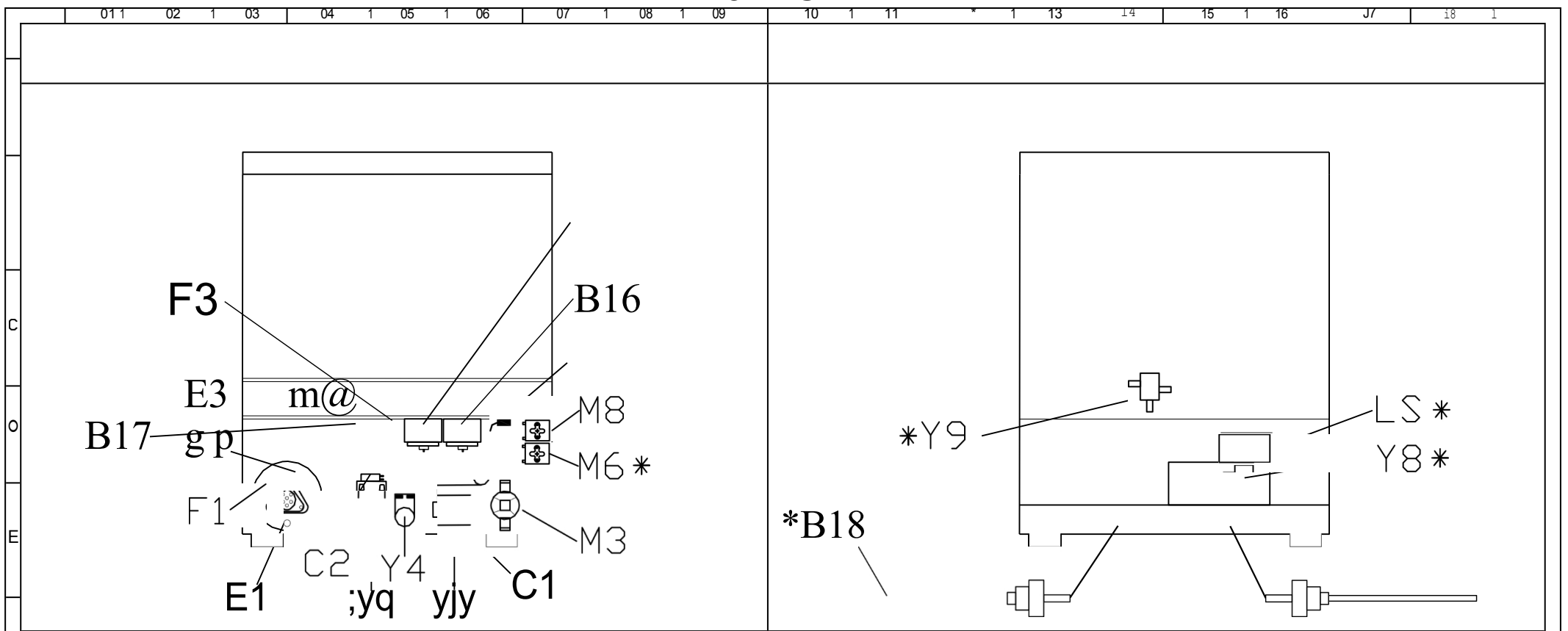
 FOR THIS CONFIGURATION, POWER SUPPLY CABLE 5X4 mm², MUST BE USED.

A- 19 00W
B - 1 500W
C- 1500W

code machine		denomination		Code	
---		*/AND ING DIAGRAMHH		1364	
inspected by BertotInl	date 06/02/17	Dishwashers		n°/file	nod
validated by	date 06/02/17	* 2		1364a	

DESCRIZIONE	SOSTITUISCE	DATA

TT 52 TS ABT



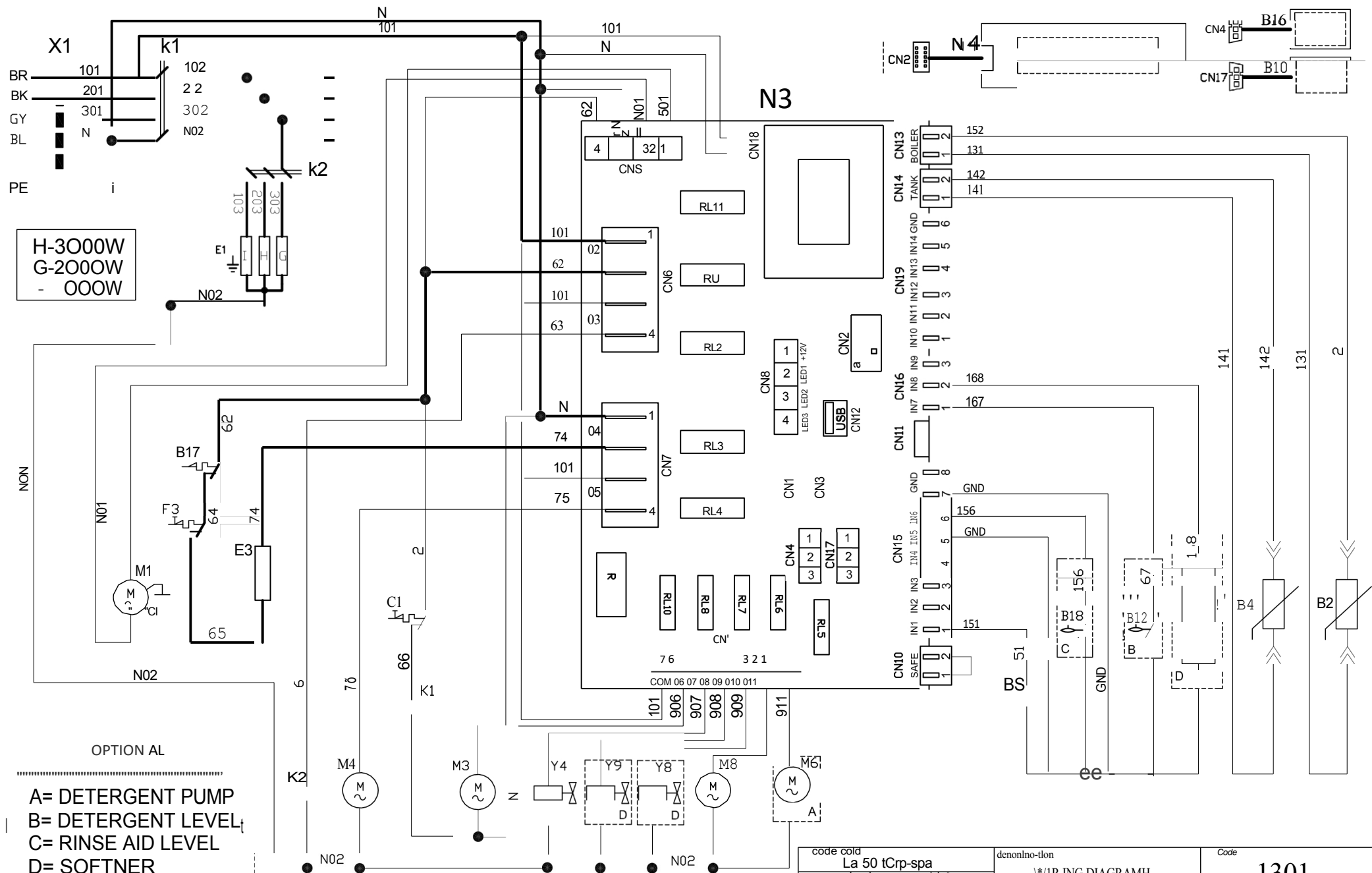
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n° rootrc#	DESCRIZIONE	SOSTITUISCE	DATA	code machine	denominazione	Code
				---	TDPDGRAPHICAL	1364
				06/08/17	dishwasher	n/Cme
				06/08/17	^ * 1111 01	1364T -

TT 52 TS ABT

	GB	D	F	I	E	P
B2	Boiler probe	Temperaturfühler Durchlauferhitzer	Sonde surchauffeur	Probe boiler	Palpador de temperature calderin	Probe de temperature caldera
B4	Tank probe	Tanktemperaturefühler	Probe cuve	Vasca probe	Palpador de temperature en la cuba	Tank temperature probe
B5	Door switch	Reed- Türsicherheitkontaktschalter	Micro contact de porte	Micro porta	Interruptor de puerta	Micro-interruptor porta
B10	Tank level control	Tankniveauschalter	Pressostat de cuve	Controllo livello vasca	Interruptor del nivel en la cuba	Tanque level interruptor
B12	Detergent level	Spülmittelniveauschalter	Contrôle niveau déterergent	Controllo livello detergente	Comprobación de nivel detergente	Interruptor de nivel detergente
B16	Booster level control	Nachspülboiler Niveauschalter	Pressostat niveau surchauffeur	Controllo livello boiler	Control nivel calderin	interruptor de nivel do boiler
B17	Tank limiting thermostat	Tank begrenzung thermostat	Thermostat de limitation de la cuve	Thermostato limitatore vasca	Thermostato limitador cuba	Limitador de temperatura caldera
B18	Rinse aid level	Stufe Glanzmittel	Contrôle niveau produit de rinçage	Controllo livello brillantante	Comprobación de nivel abrillantador	Interruptor de nivel solução para brilho
C1	Wash pump noise filter	Fünkenstörfilter Umwälzpumpe	Condensateur pompe de lavage	Condensatore pump lavaggio	Condensador bomba de lavado	Condenser bomb lavagem
C2	Rinse booster pump noise filter.	Fünkenstörfilter Drucksteigerungspumpe	Condensateur pompe auxiliaire	Condensatore pump ausiliaria	Condensador bomba de aumento presion	Condensador bomba do aumento de pressão
E1	Boiler heating element	Heizkörper Durchlauferhitzer	Resistance du surchauffeur	Resistenza boiler	Resistencia del calderin	Resistências caldera
E3	Tank heating element	Tankheizung	Resistance de cuve	Resistenza vasca	Resistencia de la cuba	Resistência cuba
F1	Boiler safety thermostat	Durchlauferhitzer Temperaturbegrenzer	Thermostat securite surchauffeur	Thermostat sicurezza boiler	Limitador de temperatura del calderin	Rgolador de temperature caldera
F3	Tank safety thermostat	Tanktemperaturbegrenzer	Thermostat securite cuve	Thermostat sicurezza vasca	Limitador de temperatura del deposito	Rgolador de tanque temperature
K1	Main relay	Relais EIN / AUS	Relais Marche / Arrêt	Relè di linea	Relé suministro de corriente	Relé de alimentação elétrica
K2	Boiler heating element relay	Durchlauferhitzer Heizkörper Relais	Relais resistance surchauffeur	Relè resistenza boiler	Relay resistance Calderin	Relé de resistência de caldeira
N	Salt level control	Salz höhe controls	Contrôle niveau de sel	Controllo livello sale	Controlor nivel de sal	Sal nivel controlo
M1	Wash pump motor	Umwälzpumpe engine	Moteur pompe lavage	Motor pump lavaggio	Motor bomb lavado	Motor bomba de lavagem
M3	Drain pump motor	Laugenpumpe engine	Moteur pompe vidange	Scarico pump motor	Motor bomb de desagüe	Motor bomba de esgoto
M4	Rinse booster pump motor	Motor Drucksteigerungspumpe	Auxiliary pump motor	Motore pompa ausiliaria	Motor bomba para aumentar la presión	Motor bomb de enxague
M6	Detergent pump motor	Dosiergerät Reiniger	Moteur pompe produit lavage	Dosatore detergente	Dosificador por el detergente	Doseador de detergente
M8	Rinse aid pump motor	Dosiergerät Glanzmittel	Moteur pompe produit de rinçage	Dosatore brillantante	Dosificador abrillantador	Doseador da solução para brilho
N3	Electronic control	Programmschaltwerk Elektronikmodule	Carte controle cycle	Scheda controllo ciclo	Electrónica de controló ciclo	Módulo electronico temporizador de ciclo
N4	Auxiliary electronic control	Zusatzelektroplatine	Carte électronique auxiliaire	Scheda controllo ausiliaria	Electrónico de control auxiliar	Placa eletrônica auxiliar
Y4	Fill/hot rinse solenoid valve	Electromagnetventil Füllen / Klarspülung warm	Electrovanne remplissage	Elettrovalvola carico / risciacquo caldo	Válvula magnetica de entrada / enjuague caliente	Válvula magnetica de entrada / enxague quente
Y8	Regeneration solenoid switch valve	Regenerieren Elektromagnet wechselventil	Electrovanne échangeur régénération	Elettrovalvola scambiatrice di rigenerazione	Válvula cambiadora de regeneración	Válvula cambista de regeneração
Y9	Regeneration solenoid switch valve	Regenerieren Elektromagnet wechselventil	Electrovanne échangeur régénération	Elettrovalvola scambiatrice di rigenerazione	Válvula cambiadora de regeneración	Válvula cambista de regeneração

TT 52 T(B) ABT



OPTIONAL

A= DETERGENT PUMP
 B= DETERGENT LEVEL
 C= RINSE AID LEVEL
 D= SOFTNER

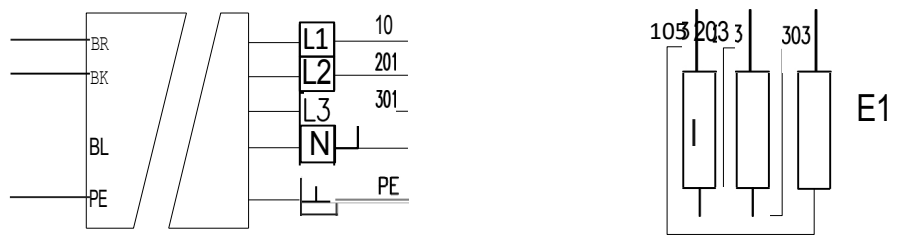
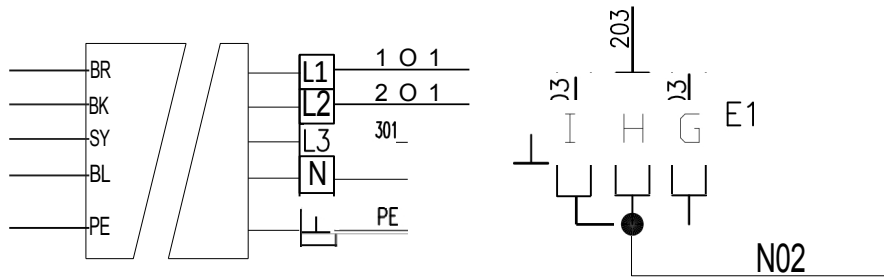
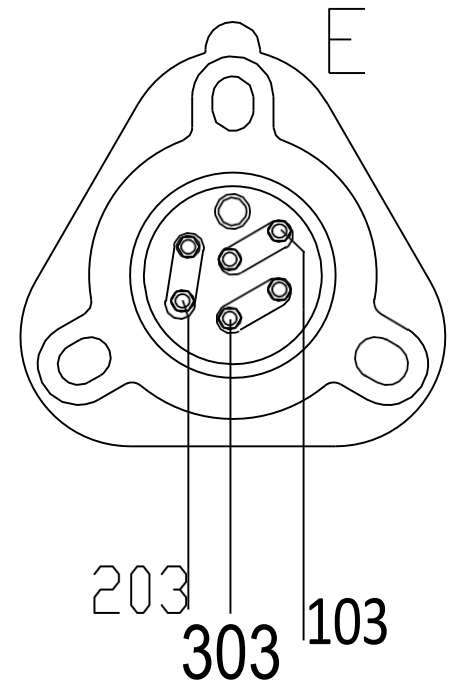
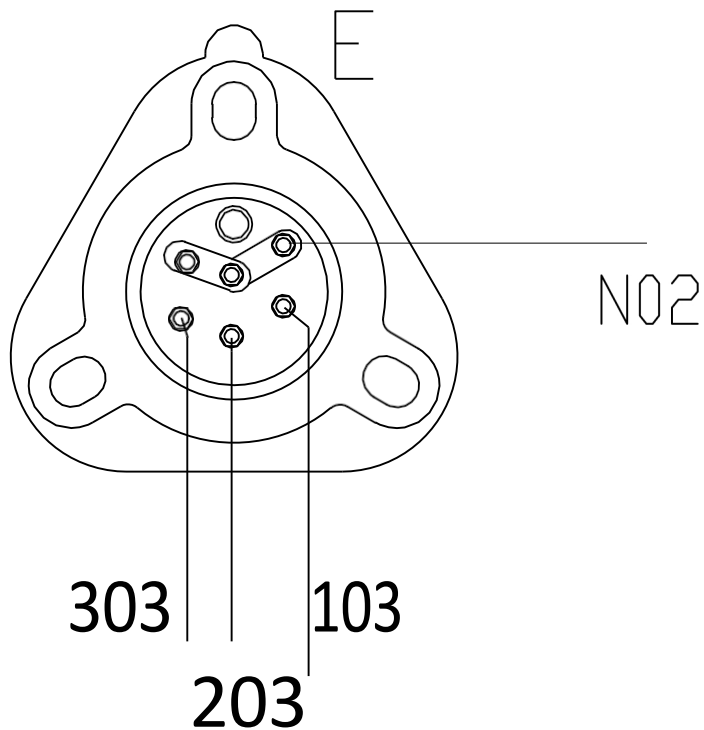
code cold	La 50 tCp-spa	denonno-tlon	Code	
re-examined	da'e 22/06/17	*/IR ING DIAGRAMH		1301
Inspected by	d-te	dishwasher	n°/file	mod
validated by	deme 22/06/17	This is N°bla l	Next blah	1301
		<	i	-1

n° MODIFICA	DESCRIZIONE	SOSTITUISCE	DATA
-1	Sistemat conversioni		

TT 52 T(B) ABT

400v 3N 50hz 7.9kw 16A

230v 3 50hz 7.9kw 25A



⚠ FBR THIS CONFIGURATION, POWER SUPPLY CABLE 5X4 mm², MUST BE USED.

H -3000W
G=2000W
I=1000W

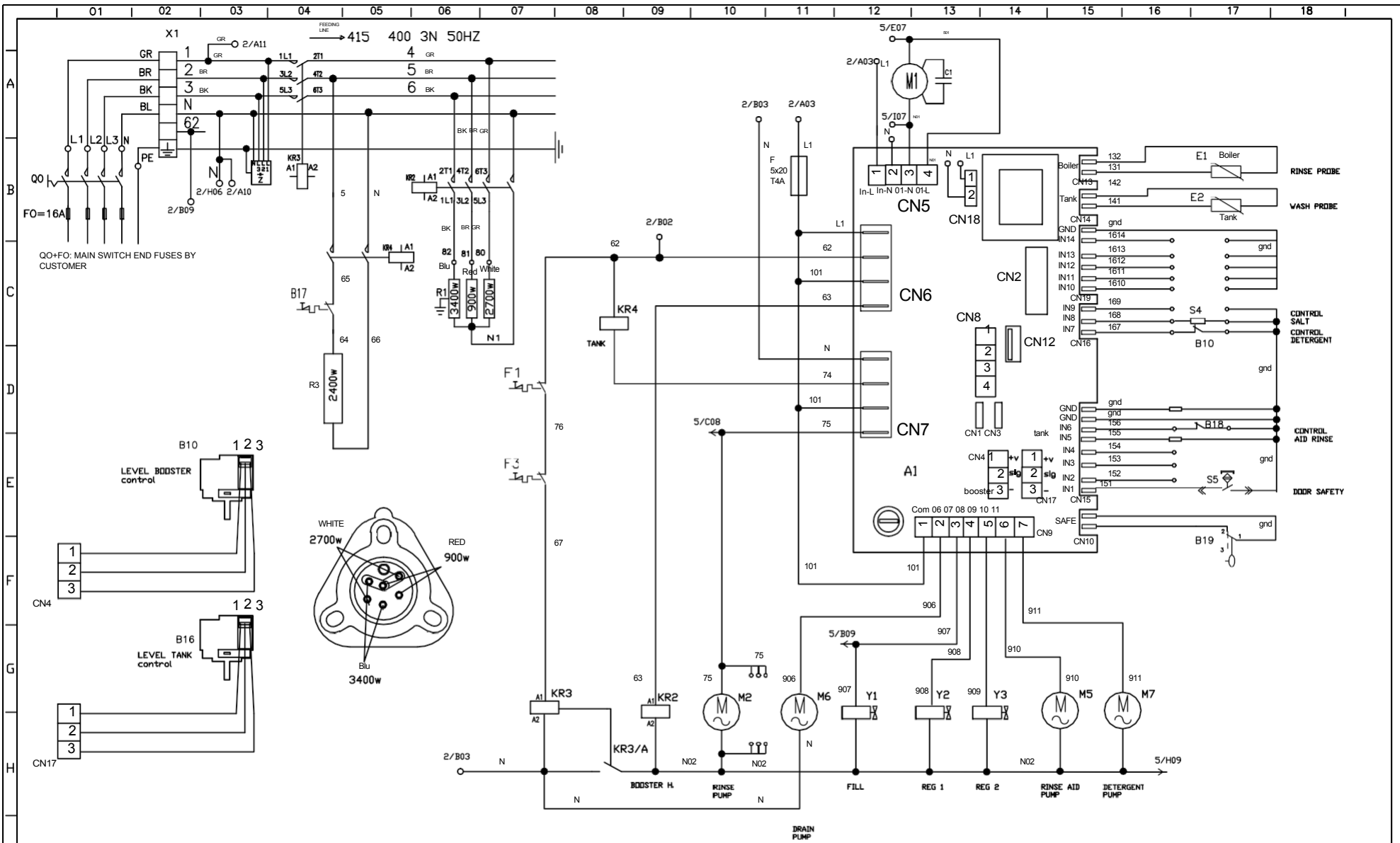
code machine	denomination	Code
date 22/06/17	*/AND ING DIAGRAMHH	1301
inspected by BertotInl	Dishwashers	n°/file 1301
validated by 22/06/17	*o0et bte0 / t.t.s* wex aet	nod -1

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18
DESCRIZIONE									SOSTITUISCE		DATA						

TT 52 T(B) ABT

	GB	D	F	I	E	P
B2	Boiler probe	Temperaturfühler Durchlauferhitzer	Sonde surchauffeur	Probe boiler	Palpador de temperature calderin	Probe de temperature caldera
B4	Tank probe	Tanktemperaturefühler	Probe cuve	Vasca probe	Palpador de temperature en la cuba	Tank temperature probe
B5	Door switch	Reed- Türsicherheitkontaktschalter	Micro contact de porte	Micro porta	Interruptor de puerta	Micro-interruptor porta
B7	Filter switch	Filterkontaktschalter	Interrupteur de filtre	Microcontatto filter	Interruptor del filtro	Micro-interruptor filter
B10	Tank level control	Tankniveauschalter	Pressostat de cuve	Controllo livello vasca	Interruptor del nivel en la cuba	Tanque level interruptor
B12	Detergent level	Spülmittelniveauschalter	Contrôle niveau détergent	Controllo livello detergente	Comprobación de nivel detergente	Interruptor de nivel detergente
B16	Booster level control	Nachspülboiler Niveauschalter	Pressostat niveau surchauffeur	Controllo livello boiler	Control nivel calderin	interruptor de nivel do boiler
B17	Tank limiting thermostat	Tank begrenzugs thermostat	Thermostat de limitation de la cuve	Termostato limitatore vasca	Termostato limitador cuba	Limitador de temperatura caldera
B18	Rinse aid level	Stufe Glänzmittel	Contrôle niveau produit de rinçage	Controllo livello brillantante	Comprobación de nivel abrillantador	Interruptor de nivel solução para brilho
C1	Wash pump noise filter	Fünkenstörfilter Umwälzpumpe	Condensateur pompe de lavage	Condensatore pump lavaggio	Condensador bomba de lavado	Condenser bomb lavagem
C2	Rinse booster pump noise filter.	Fünkenstörfilter Drucksteigerungspumpe	Condensateur pompe auxiliaire	Condensatore pump ausiliaria	Condensador bomba de aumento presion	Condensador bomba do aumento de pressão
E1	Boiler heating element	Heizkörper Durchlauferhitzer	Resistance du surchauffeur	Resistenza boiler	Resistencia del calderin	Resistências caldera
E3	Tank heating element	Tankheizung	Resistance de cuve	Resistenza vasca	Resistencia de la cuba	Resistência cuba
F1	Boiler safety thermostat	Durchlauferhitzer Temperaturbegrenzer	Thermostat securite surchauffeur	Thermostat sicurezza boiler	Limitador de temperatura del calderin	Rgolador de temperature caldera
F3	Tank safety thermostat	Tanktemperaturbegrenzer	Thermostat securite cuve	Thermostat sicurezza vasca	Limitador de temperatura del deposito	Rgolador de tanque temperature
K1	Main relay	Relais EIN / AUS	Relais Marche / Arrêt	Relè di linea	Relé suministro de corriente	Relé de alimentação elétrica
K2	Boiler heating element relay	Durchlauferhitzer Heizkörper Relais	Relais resistance surchauffeur	Relè resistenza boiler	Relay resistance Calderin	Relé de resistência de caldeira
N	Salt level control	Salz höhe controls	Contrôle niveau de sel	Controllo livello sale	Controlor nivel de sal	Sal nivel controlo
M1	Wash pump motor	Umwälzpumpe engine	Moteur pompe lavage	Motor pump lavaggio	Motor bomb lavado	Motor bomba de lavagem
M3	Drain pump motor	Laugenpumpe engine	Moteur pompe vidange	Scarico pump motor	Motor bomb de desagüe	Motor bomba de esgoto
M4	Rinse booster pump motor	Motor Drucksteigerungspumpe	Auxiliary pump motor	Motore pompa ausiliaria	Motor bomba para aumentar la presión	Motor bomb de enxague
M6	Detergent pump motor	Dosiergerät Reiniger	Moteur pompe produit lavage	Dosatore detergente	Dosificador por el detergente	Doseador de detergente
M8	Rinse aid pump motor	Dosiergerät Glänzmittel	Moteur pompe produit de rinçage	Dosatore brillantante	Dosificador abrillantador	Doseador da solução para brilho
N3	Electronic control	Programmschaltwerk Elektronikmodule	Carte controle cycle	Scheda controllo ciclo	Electrónica de controló ciclo	Módulo electronico temporizador de ciclo
N4	Auxiliary electronic control	Zusatzelektroplatine	Carte électronique auxiliaire	Scheda controllo ausiliaria	Electrónico de control auxiliar	Placa eletrônica auxiliar
Y4	Fill/hot rinse solenoid valve	Electromagnetventil Füllen / Klarspülung warm	Electrovanne remplissage	Elettrovalvola carico / risciacquo caldo	Válvula magnética de entrada / enjuague caliente	Válvula magnética de entrada / enxague quente
Y8	Regeneration solenoid switch valve	Regenerieren Elektromagnet wechselventil	Electrovanne échangeur régénération	Elettrovalvola scambiatrice di rigenerazione	Válvula cambiadora de regeneración	Válvula cambista de regeneração
Y9	Regeneration solenoid switch valve	Regenerieren Elektromagnet wechselventil	Electrovanne échangeur régénération	Elettrovalvola scambiatrice di rigenerazione	Válvula cambiadora de regeneración	Válvula cambista de regeneração

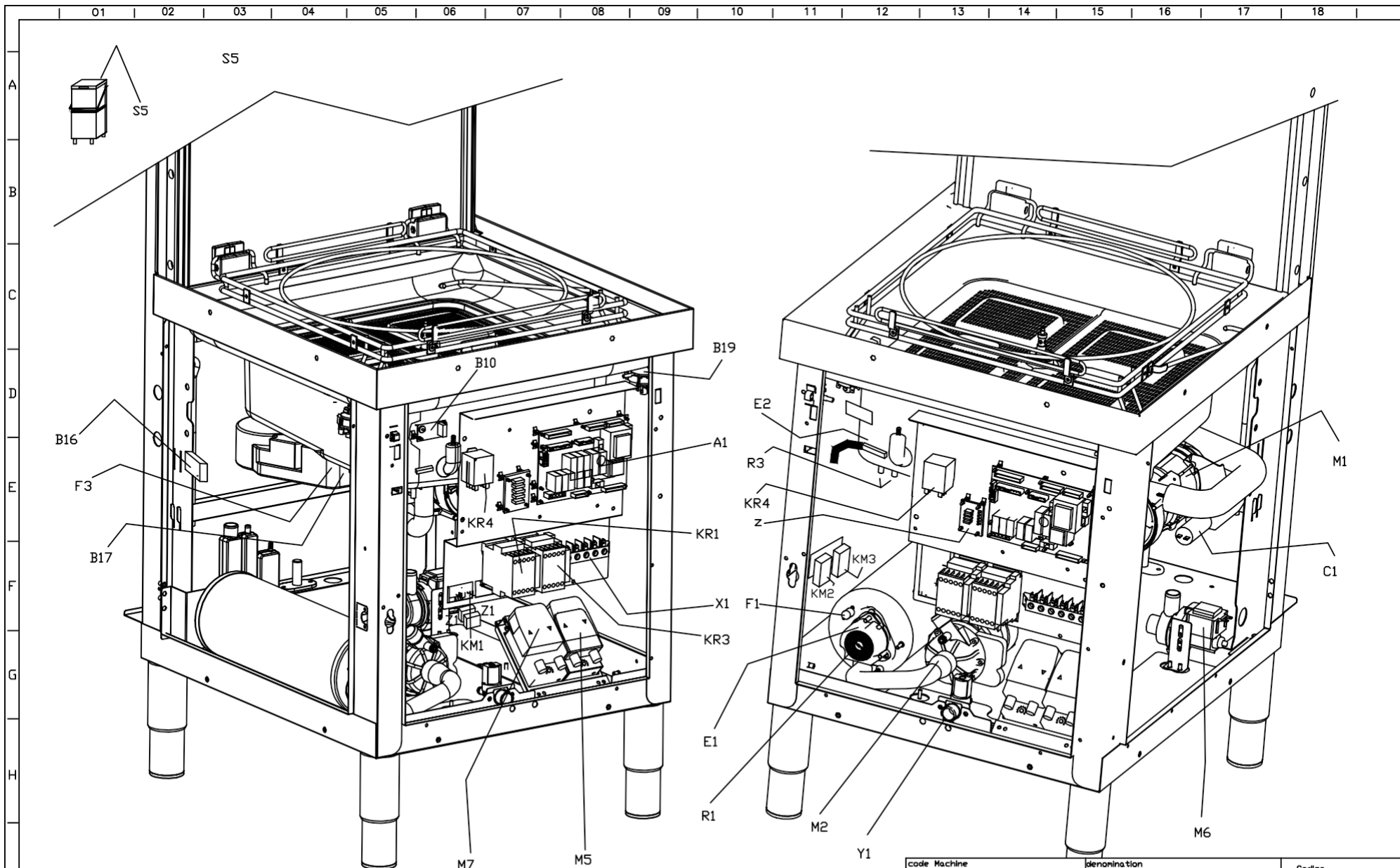
TT(A) 112 (REC) ABT



code Machine		denomination		Codice	
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24/04/18		WIRING DIAGRAMM		Implanto 87117	
inspected by		date		n°/file	
validated by		date		mod	
		Dishwashers		86001--	
		total blat			
		3			
		N° blat			
		2			
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DESCRIZIONE	SOSTITUISCE	DATA
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TT(A) 112 (REC) ABT



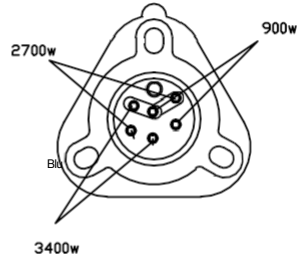
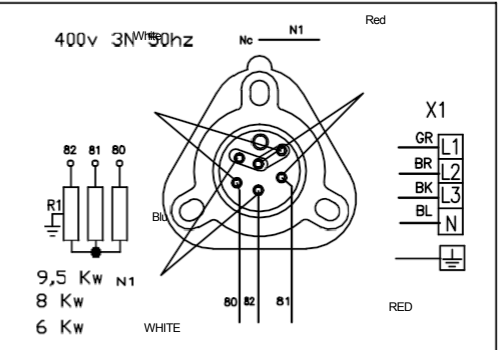
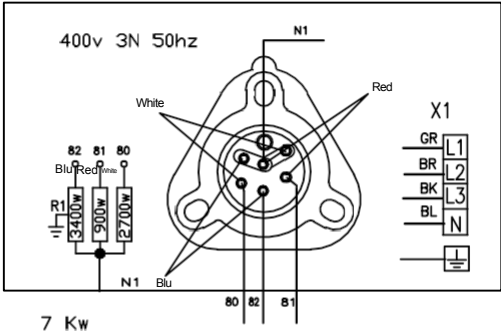
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re-examined	date	WIRING DIAGRAM		86001	
	24/04/18				
inspected by	date	Dishwashers		n°/file	mod
validated by	date	total blat	N° blat	Next blat	86001--
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DESCRIZIONE	SDSTITUISCE	DATA

TT(A) 112 (REC) ABT

01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18

A	S6	PULSANTE DI LINEA MAIN SWITCH	INTERRUPTEUR DE LIGNE NETZSCHALTER	
	S5	MICROINTERRUTTORE MAGNETICO MAGNETIC SAFETY MICROSWITCH	MICROINTERRUPTEUR MAGNETIQUE MAGNETISCHER SICHERHITSSCHALTER	
	S3	INTERRUTTORE DI CICLO CYCLE SWITCH	INTERRUPTEUR DE DEMARRAGE WASCHVORGANGSSCHALTER	
	S4	SELETORE CICLO CYCLE COMMUTATOR	SELECTEUR CYCLE WAHLSCHALTER FUER WASCHVORGANGSDAUER	
	F1	TERMOSTATO SICUREZZA BOILER SAFETY BOOSTER HEATER THERMOSTAT	THERMOSTAT DE SICURITE DU BOYLER SICHERHEITZUNG	
	F3 b17	TERMOSTATO SICUREZZA VASCA SAFETY TANK HEATER THERMOSTAT	THERMOSTAT DE SICURITE CUVE SICHERHEITS- TANKTHERMOSTAT	
B	R3	RESISTENZA VASCA LAVAGGIO WASH TANK HEATING ELEMENT	RESISTANCE CUVE DE LAVAGE WASHTANKHEIZUNG	
	R1	RESISTENZA BOILER BOOSTER HEATER HEATING ELEMENT	RESISTANCE BOYLER BOILERHEIZUNG	
	M7	ELETTRODOSATORE TENSIOATTIVO EL. RINSE/ID INJECTOR	DOSEUR EL. PRODUIT RINCAGE NACHSPUELMITTELDOSIERGERAET	
C	M6	ELETTROPOMPA DI SCARICO DRAIN PUMP	MOTEUR POMPE VIDANGE MOTOR LAUGENPUMPE	
	M2	ELETTROPOMPA RISCIAQUO RINSE BOOSTER PUMP	ELECTROPOMPE AUGMENT PRESSION DRUCKSTEIGERUNGSPUMPE	
	M5	ELETTRODOSATORE DETERSIVO EL. DETERGENT INJECTOR	DOSEUR EL. DETERGENT SPUEL MITTELDOSIERGERAET	
	M1	ELETTROPOMPA LAVAGGIO WASH ELECTRIC PUMP	ELECTROPOMPE LAVAGE ELEKTRISCHE UMAELZPUMPE	
D	KR3	TELERUTTORE SICUREZZA RESISTENZA BOILER SAFETY BOOSTER HEATER CONTACTOR	CONTACTEUR RESISTANCE BOYLER LUFTSCHUETZ F. BOILERHEIZUNG	
	KR4	TELERUTTORE RESISTENZA RISC.. VASCA TANK HEATER CONTACTOR		
	KR2	TELERUTTORE RESISTENZA BOILER BOOSTER HEATER CONTACTOR	CONTACTEUR RESISTANCE BOYLER LUFTSCHUETZ F. BOILERHEIZUNG	
	Y1	ELETTROVALVOLA RISCIAQUO RINSE SOLENOID VALVE	ELECTROVANNE DE RINCAGE MAGNETVENT FUER NACHSPUELLUNG	
E	F... #1/#3	FUSIBILE FEUSES		
	E1	SONDA CONTROLLO VASCA PROBE TANK HEATER	THERMOSTAT RESISTANCE CUVE THANKHEIZUNG/THERMOSTAT	
	E2	SONDA CONTROLLO BOILER BOOSTER HEATER THERMOSTAT	THERMOSTAT RESISTANCE BOYLER BOILERHEIZUNG	
F	C1/C2	CONDENSATORE CAPACITOUR		
	B16	PRESSOSTATO LIVELLO BOILER BOILER PRESSURE SWITCH	PRESSOSTAT NIVEAU SURCHAUFFER NACHSPULBOILER NIVEAUSCHALTER	
	B18	CONTROLLO LIVELLO BRILLANTANTE RINSE AID CONTROL LEVEL	CONTROLE NIVEAU PRODUIT DE RINCAGE STUFE GLANZMITTEL	
	B12	CONTROLLO LIVELLO DETERGENTE DETERGENT LEVEL	CONTROLE NIVEAU DETERGENT SPULMITTELNIVEAUSCHALTER	
G	B10	PRESSOSTATO LIVELLO VASCA TANK PRESSURE SWITCH	PRESSOSTAT NIVEAU AIRGAP TANKDRUCKSCHALTER-NIVEAUREGLER	
	N/N3	SCHEDA CONTROLLO ELECTRONIC CONTROL UNIT	FICHE DE CONTROLEELECTRONIQUE ELEKTRONISCHE BEDIENUNGSKARTE	
H	SIMB.	DESCRIZIONE DESCRIPTION	DESCRIZIONE BESCHREIBUNG	



code Machine		denomination	Code	
re-examined	date	WIRING DIAGRAM	86001	
inspected by	date			
validated by	date	Dishwashers	n°/file	mod
		total blatt 3	N° blatt 1	Next blatt -2
			86001	--

DESCRIZIONE	SDSTITUISCE	DATA
-1		

TT(A) 112 (REC) ABT

machine type cn19		
In14	In13	
0	0	crpsp
0	1	sp
1	0	crp
1	1	b. press

cn19 connection set display						
IN12	IN11	IN10			display code	display type
0	0	0			74905	LCD
0	0	1			74904	C4-2
0	1	0			80889	D
0	1	1			207084	D
1	0	0			80945	T2-2
1	0	1			80945	T3-5
1	1	0			74901	C2-1
1	1	1			74901	C4-1

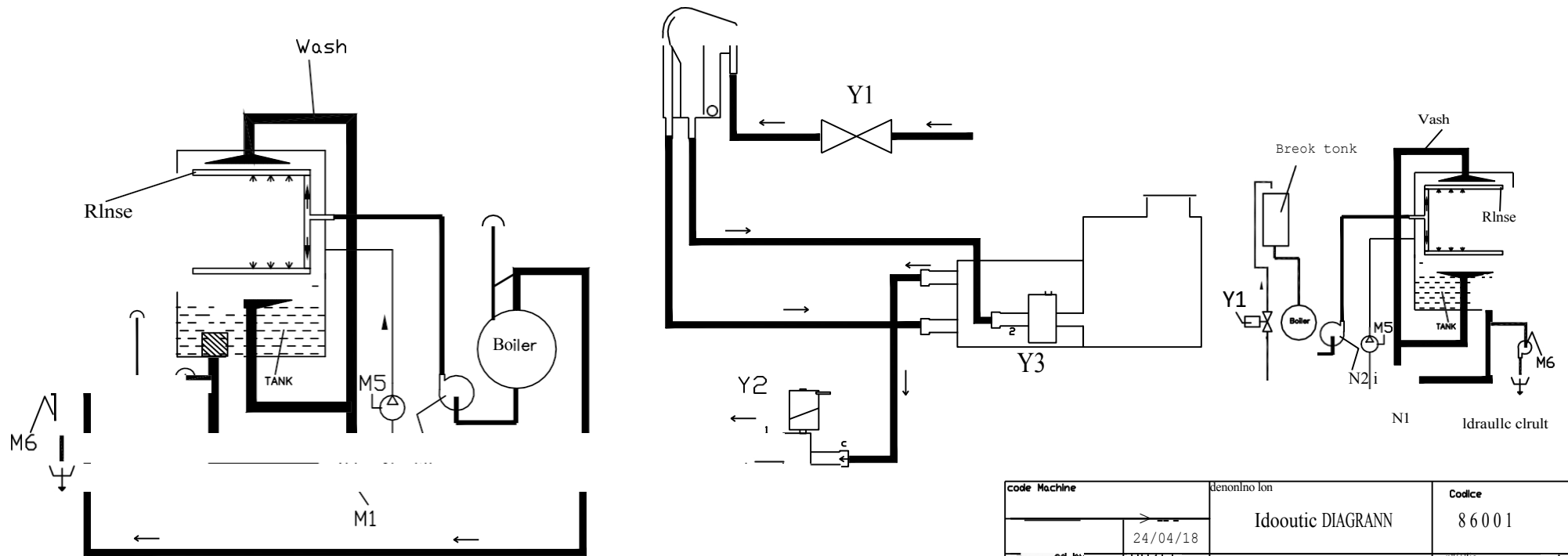
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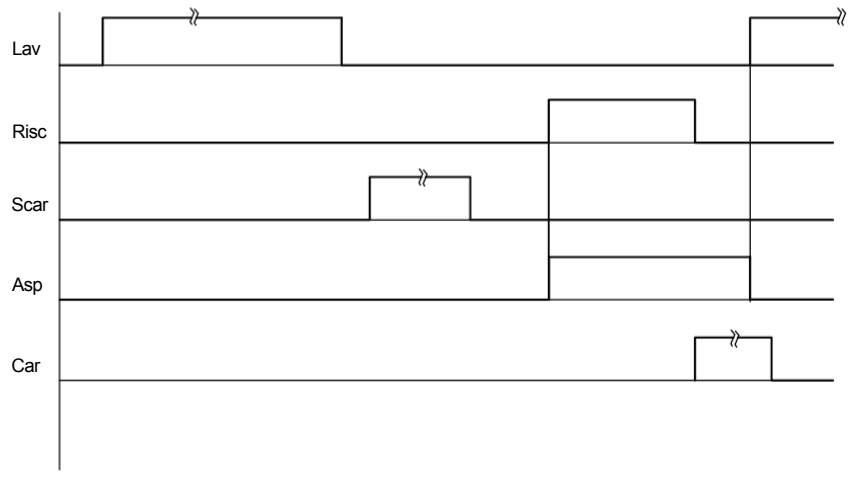
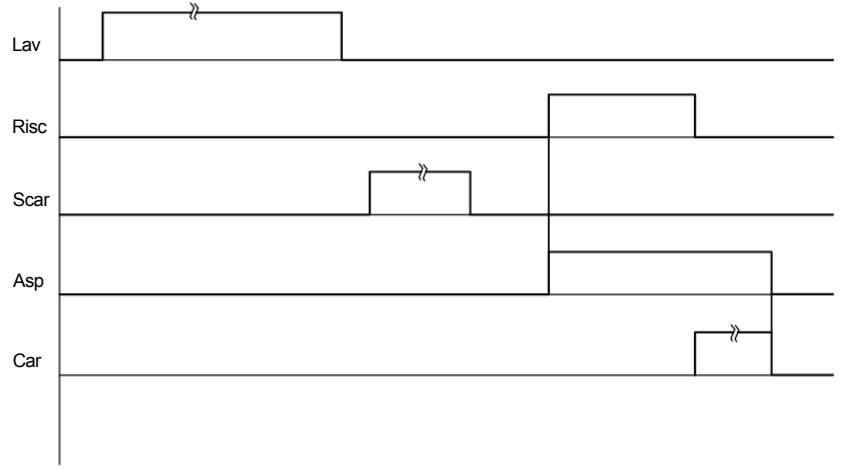
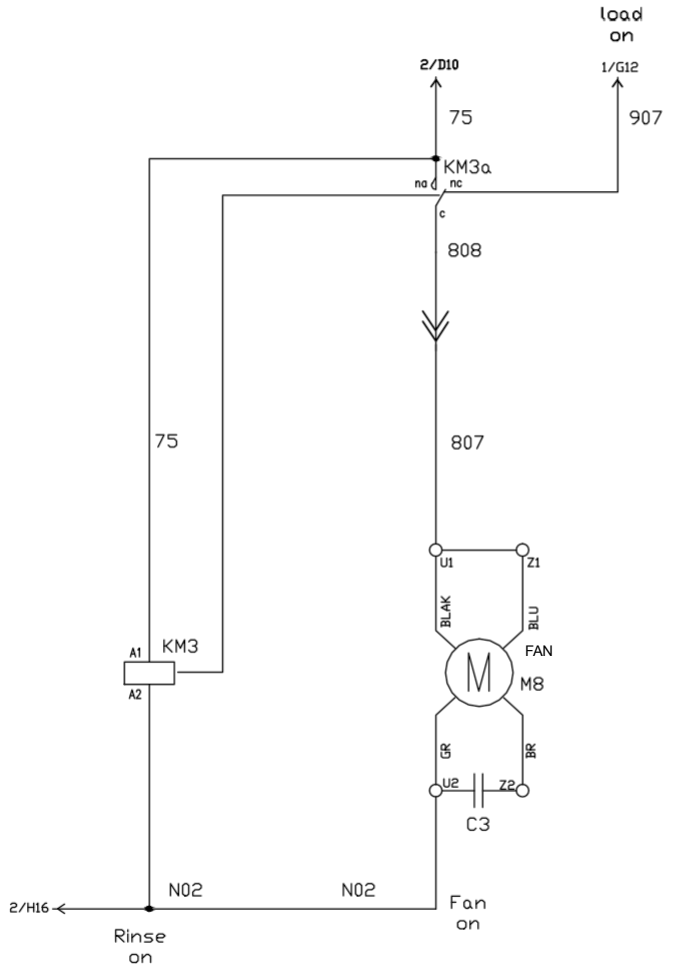
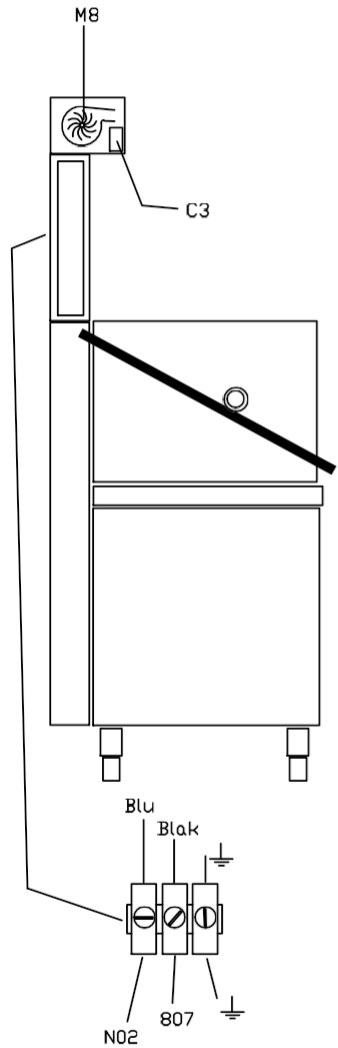
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code Machine	denominon	Codice
	Idooutic DIAGRANN	86001
designed by	date/date	n°/file
	24/04/18	mod
validated by	date/date	total blat N° blat Next blat
		4 3 --
		86001

TT(A) 112 (REC) ABT

EXTRACTOR FAN CONTROL



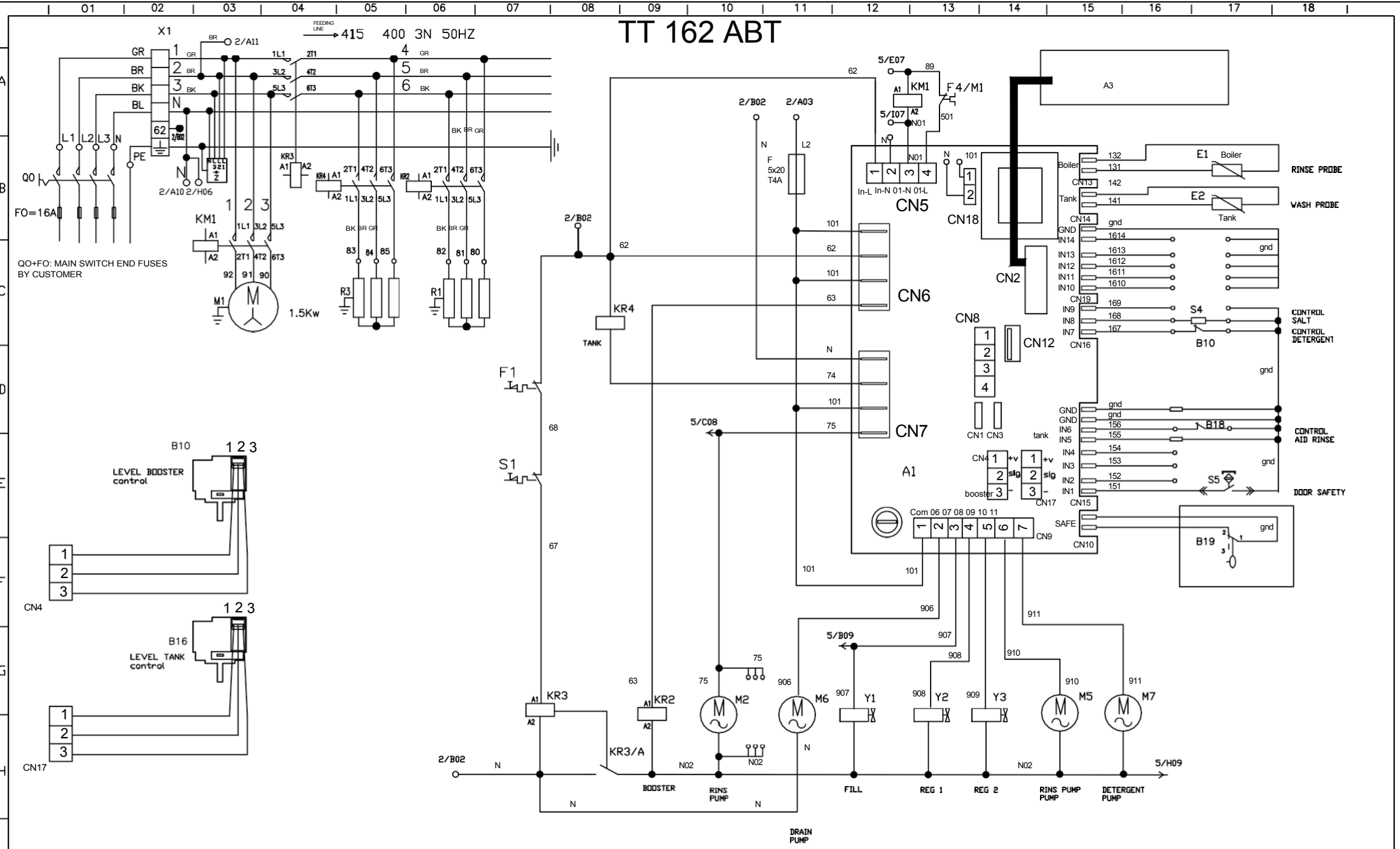
87114

WASH PROBE

code Machine		denomination			Codice	
re-examined		data/date		WIRING DIAGRAMM		86001
inspected by		date		Dishwashers		n°/file mod
validated by		date		total blat	N° blat	Next blat
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				86001		--

	DESCRIZIONE	SOSTITUISCE	DATA
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-2			

TT 162 ABT

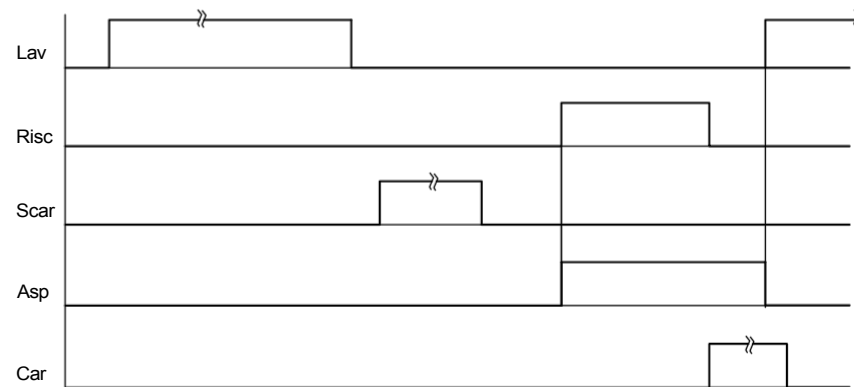
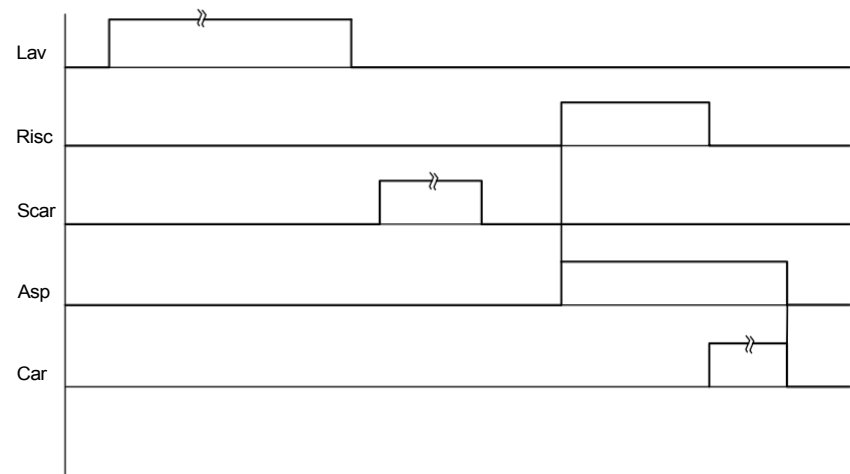
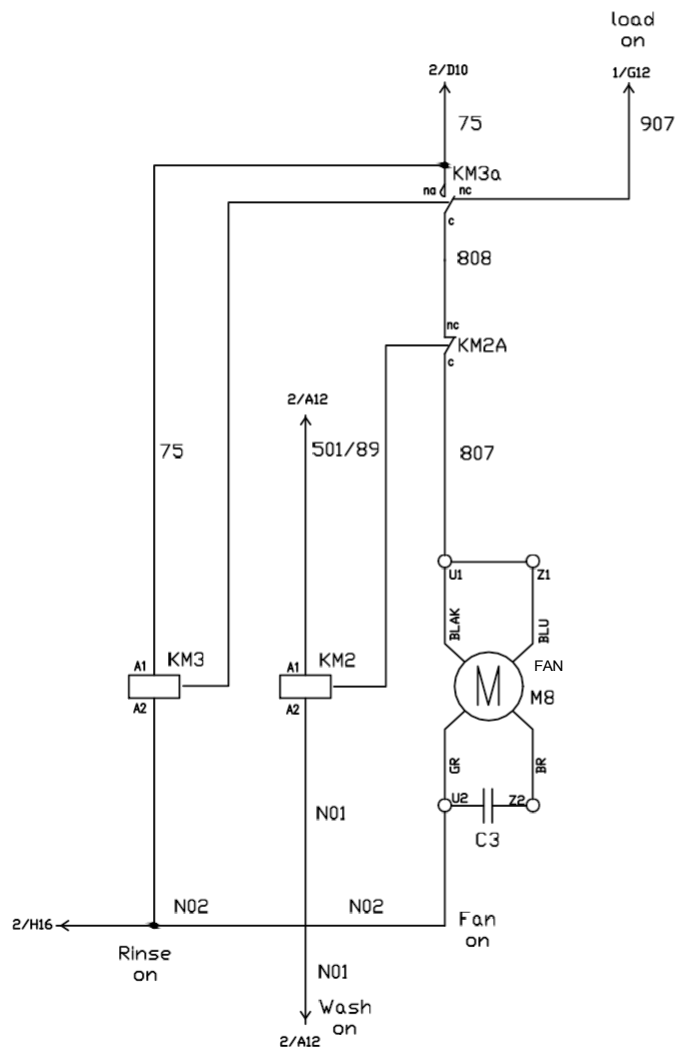
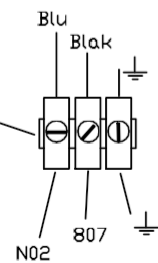
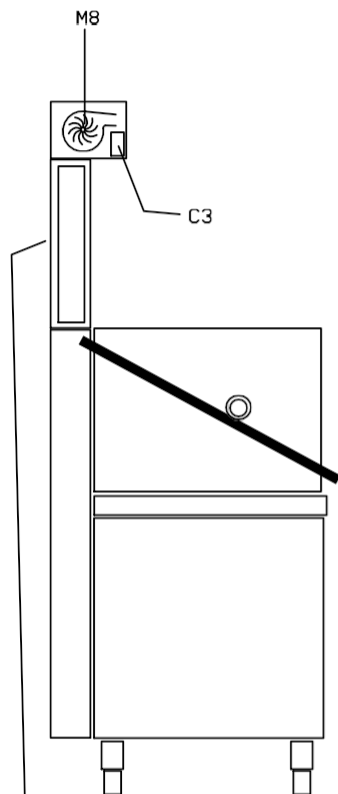


code Machine		denomination		Codice	
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		09/05/17		Impianto 87130	
inspected by		date		n°/File	
validated by		date		mod	
		total blat		81958	
		N° blat		-1	
		Next blat		-2	

DESCRIZIONE	SDSTITUISCE	DATA
-1		
-2		

TT 162 ABT

EXTRACTOR FAN CONTROL



87114

WASH PROBE

code Machine		denomination			Codice	
re-examined	date	WIRING DIAGRAMM			n°/file	
09/05/17						
inspected by	date	Dishwashers			mod	
validated by	date	total blat	N° blat	Next blat	81958-1	
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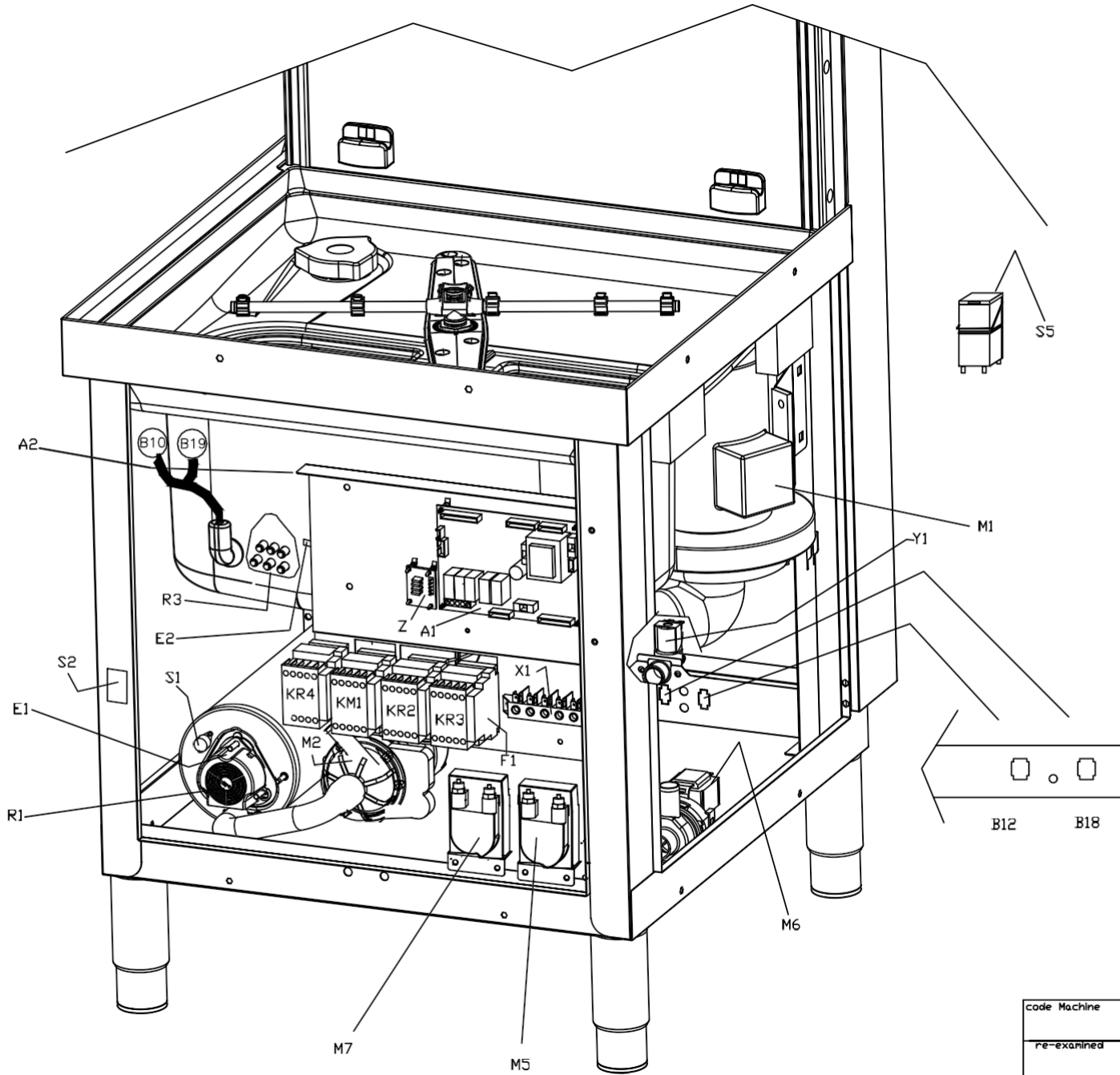
DESCRIZIONE

SOSTITUISCE

DATA

-1
-2

TT 162 ABT



code Machine		denomination		Codice	
re-examined	date	WIRING DIAGRAMM			
	09/05/17				
inspected by	date	Dishwashers		n°/file	mod
validated by	date			total blat	N° blat
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DESCRIZIONE	SOSTITUISCE	DATA
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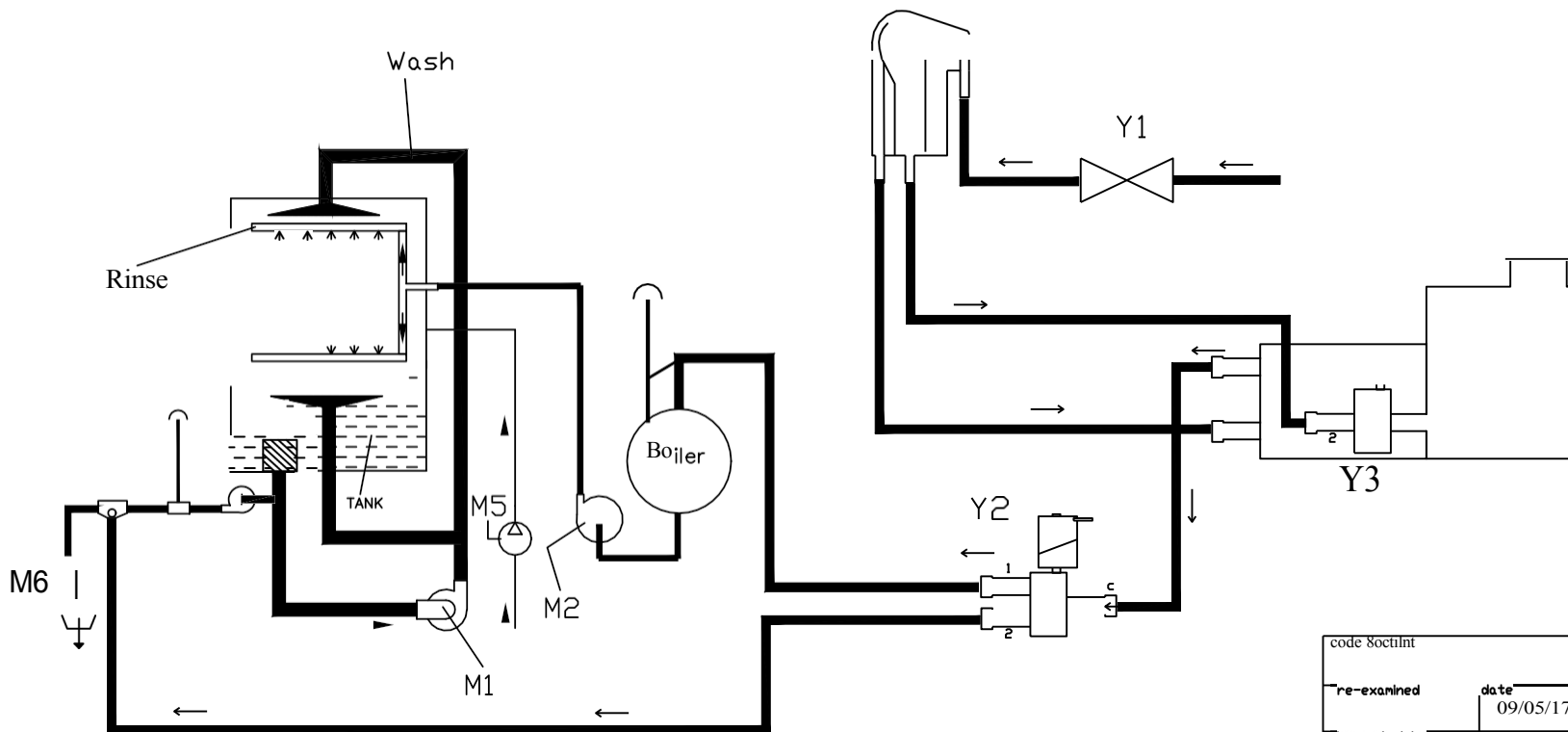
TT 162 ABT

machine type cn19		
In14	In13	
0	0	crpsp
0	1	sp
1	0	crp
1	1	b. press

cn19 connection set display						
IN12	IN11	IN10			display code	display type
0	0	0			74905	LCD
0	0	1			74904	C4-2
0	1	0			80889	D
0	1	1			207084	D
1	0	0			80945	T2-2
1	0	1			80945	T3-5
1	1	0			74901	C2-1
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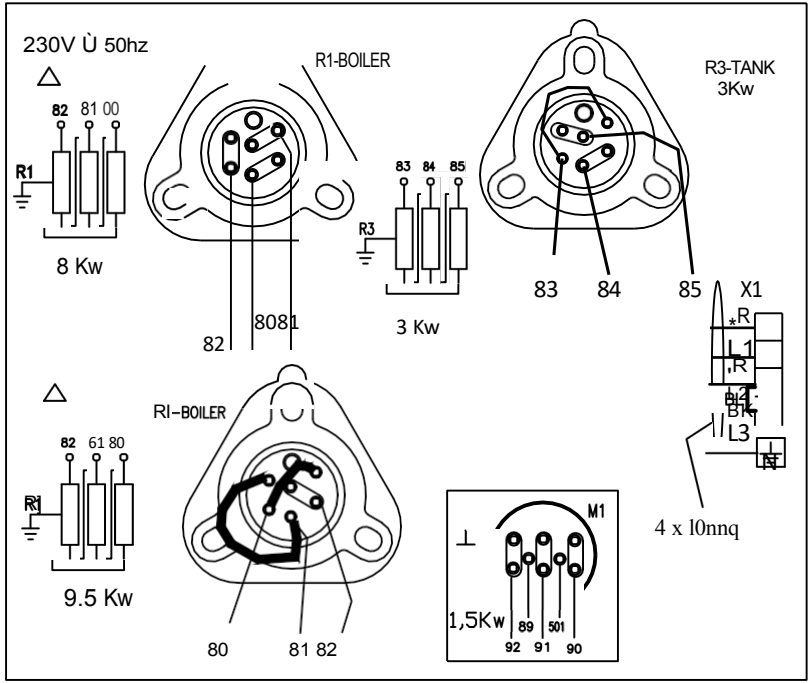
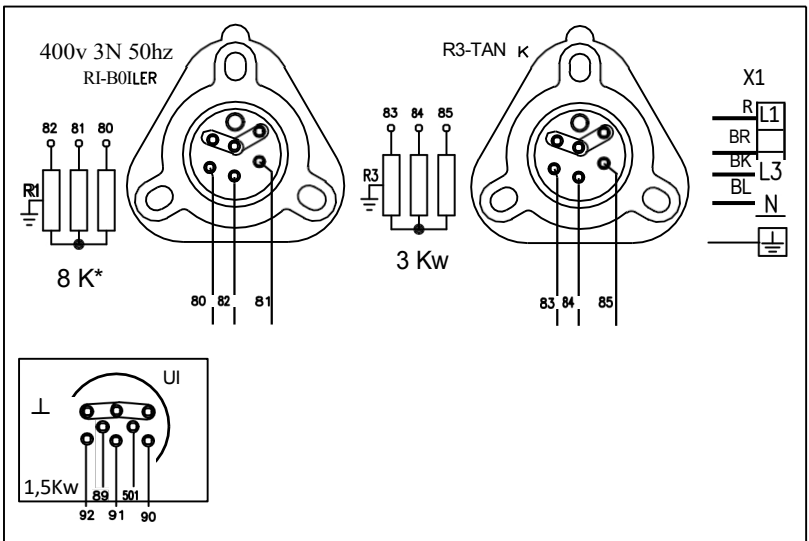
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Break tonk



code 8octInt	denowneeon	Codice
re-examined	date 09/05/17	Idroulc DIAGRAHN
Inspected by	date	Ashueshers
		blat 4 Next blat 5
		81958-1

S6	PULSANTE DI LINEA MAIN SWITCH	INTERRUPTEUR DE UGNE NETZSCHALTER		
S5	MICROINTERRUTTORE uAcNEriCo MAGNETIC SAFETY MICROSWITCH	MICROINTERRUPTEUR MAGNETIQUE MAGNETISCHER SICHERHITSSCHALTER		
S3	INTERRUTTORE DI CICLO CYCLE SWITCH	INTERRUPTEUR DE CICLE WASCHVORGANGSSCHALTER		
S4	SELETORE CICLO CYCLE COMUTATOR	SELECTEUR CYCLE WASCHVORGANGSDAUER		
S1	TERMOSTATO SICUREZZA BOILER SAFETY BOOSTER HEATER THERMOSTAT	THERMOSTAT DE SICURITE DU BOYLER SICHERHEITZUNG		
F3A S2	TERMOSTAT SICUREZZA VASCA SAFETY TANK HEATER THERMOSTAT	THERMOSTAT DE SICURITE CUVE SICHERHERS- TANKHERMOSTAT		
R3	RESISTENZA VASCA LAVAGGIO WASH TANK HEATING ELEUE	RESISTANCE CUVE DE LAVAGE WASCHTANKHEIZUNG		
R1	RESISTENZA BOILER BOOSTER HEATER HEATING ELEMENT	RESISTANCE BOILER BOILERHEIZUNG		
M5	ELETTRODOSATORE TENSOATTIVO EL. RINSEAD INJECTOR	DOSEUR EL. PRODUIT RINCAGE NACHSPUELMITTELDOSIERGERAET		
M6	ELETTROPOMPA DI SCARICO DRAIN PUMP	MOTEUR POMPE VIDANGE MOTOR LAUGENPUMPE		
K12	ELETTROPOMPA RISCIAQUO RINSE BOOSTER PUMP	ELETTROPOMPE AUGMENT PRESSION DRUCKSTEIGERUNGSPUMPE		
K17	ELETTRODOSATORE DETERGIVO EL DETERGENT INJECTOR	DOSEUR EL. DETERGENT SPUELMITTELDOSEIERGERAET		
U1	ELETTROPOMPA LAVAGGIO WASH ELECTRIC PUMP	ELETTROPOMPE LAVAGE ELECTRISCHE UMAELZPUMPE		
KR3	TELERUTTORE SICUREZZA RESISTENZA BOILER SAFETY BOOSTER HEATER CONTACTOR	CONTACTEUR RESISTANCE BOYMR LUFTSCHUETZ F. BOILERHEITZUNG		
KR4	TELERUTTORE RESISTENZA RISC.. VASCA TANK HEATER CONTACTOR			
KR2	TELERUTTORE RESISTENZA BOILER BOOSTER HEATER CONTACTOR	CONTACTEUR RESISTANCE BOYLER LUFTSCHUETZ F. BOILERHEITZUNG		
Y1	ELETTROVALVOLA RISCIAQUO RINSE SOLENOID VALVE	ELECTROVANNE DE RINCAGE MAGNETVENT FUER NACHSPUELUNG		
F. F1/2/3	FUSIBILE FEUSES			
E1	PROBE CONTROLLO VASCA PROBE TANK HEATER	THERMOSTAT RESISTANCE CUVE TMNKHEIZUNSTHERMOSTAT		
E2	PROBE CONTROLLO BOILER BOOSTER HEATER THERMOSTAT	THERMOSTAT RESISTANCE BOYLER BOILERHBZUNG		
C/n	CONDENSATORE CAPACITOUR			
B16	PRESSOSTATO LIVELLO BOILER BOILER PRESSURE SWITCH	PRESSOSTAT NIVEAU SURCHAUFFER NACHSPULBOILER NIVEAUSCHALTER		
B18	CONTROLLO LIVELLO BRILLANTANTE RINSE AID CONTROL LEVEL	CONTROLE NIVEAU PRODUIT DE RINCAGE STUFE GLANZUITTEL		
B12	CONTROLLO LIVELLO DETERGENTE DETERGENT LEVEL	CONTROLE NIVEAU DETERGENT SPULMITTELNIVEAUSCHALTER		
B10	PRESSOSTATO LIVELLO VASCA TANK PRESSURE MITCH	PRESSOSTAT NIVEAU AIRGAP TANKDRUCKSCHALTER-NIVEAUREGLER		
Z	NLTRO RETE NETWORK FILTER	RESEAU DE NLTRAGE NLTERN ERK		
M/A/AS	CONTROLLO SCHEME DECIRONIC CONTROL UNIT	ncHc oE CONTROLELECTRONIQUE ELEKTRONISCHE BEDIENTUNGSKARTE		
SIMB.	DESCRIZIONE DESCRIPTION	DESCRIZIONE BESCHREIBUNG		



TT 162 ABT

code Machine	denodization	Code
tu-exenmd	09/05/17	VIRING DIAGRAMIPI
		Dishwashers
		819 U8 -1

DESCRIZIONE	SOSTITUISCE	9ATA
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