

FR15
E38

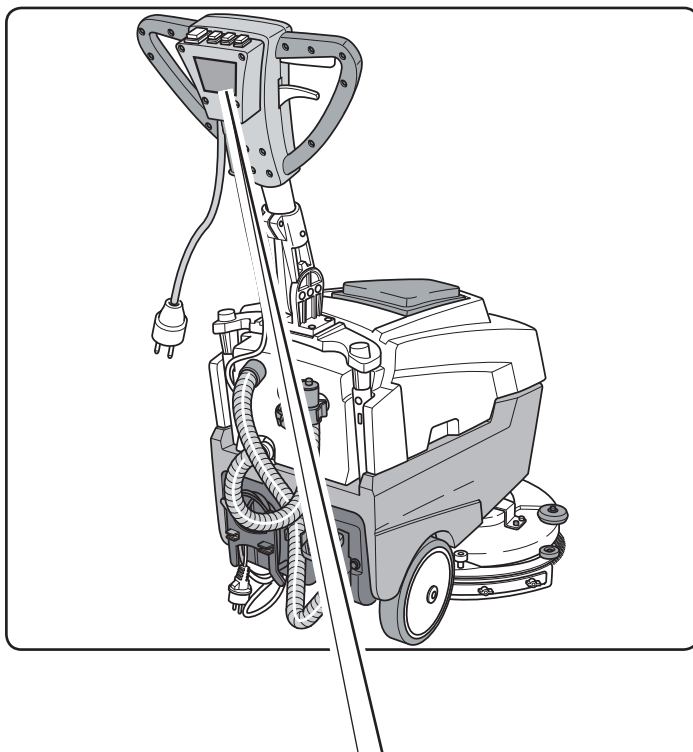


FR15
M38
M38 Hybrid

EN Use and Maintenance



49 0251 00
ed. 10-2018



1		CE	
	MAX 2%		
2	Scrubber Dryer	Mod:	8
	..... V ~ Tot:..... W	Art.:	7
	..... V ~Hz ....W	Year:	6
	Nr	IPX3	GVW: ... Kg
	MADE IN ITALY		5
	3	4	

	1	2	3	4	5	6	7	8
IT	Produttore	Caratteristiche elettriche	N° Matricola	Grado di protezione	Peso in ordine di marcia	Anno di costruzione	Codice articolo	Modello
EN	Manufacturer	Electrical characteristics	Serial N°	Degree of protection	Weight in running order	Year of manufacture	Item code	Model
FR	Producteur	Caractéristiques électriques	N° Matricule	Degré de protection	Poids en ordre de marche	Année de construction	Référence de l'article	Modèle
DE	Hersteller	Elektrische Eigenschaften	Matr.Nr.	Schutzgrad	Gewicht bei Betrieb	Baujahr	Artikelnummer	Modell
ES	Fabricante	Características eléctricas	N° Matricola	Grado de protección	Peso en orden de marcha	Año de fabricación	Código del artículo	Modelo
PT	Produtor	Características eléctricas	Número de série	Grau de protecção	Peso em ordem de marcha	Ano de construção	Código do artigo	Modelo
NL	Producent	Elektrische eigenschappen	Serienummer	Beschermingsgraad	Gewicht in rijkare toestand	Bouwjaar	Artikelcode	Model
CS	Výrobce	Elektrické údaje	Výrobní č.	Stupeň ochrany	Hmotnost v provozním stavu	Rok výroby	Kód položky	Model
RU	Изготовитель	Электрические характеристики	Заводской №	Степень защиты	Эксплуатационный вес	Год постройки	Код изделия	Модель
PL	Producent	Właściwości elektryczne	Nr. Fabryczny	Stopień ochrony	Masa w stanie gotowym do	Rok budowy	Kod produktu	Model
AR	الصانع	الواصفات الكهربائية	لوازم التتالي	درجة الحماية	الوزن في وضعية التشغيل	سنة الصنع	رمز المنتج	النموذج



English ENGLISH - 1
(Translation of original instructions)

*Dear Customer,
Thank you for choosing one of our cleaning products.*

The floor scrubber dryer that you have purchased has been designed to satisfy the user in terms of ease of use and reliability over time.

We are aware that in order for a good product to stay that way, over time, it requires continuous updates aimed at meeting the expectations of those who use it on a daily basis. For this reason, we hope that you will not only be a satisfied customer but also a partner who does not hesitate to give us your opinions and ideas originating from your personal day-to-day experience.

Contents

1.1 Introduction	EN-4
2.1 Getting to know the machine	EN-4
3.1 Unpacking	EN-4
3.1.a Standard machine equipment	EN-4
4.1 Assembling the components	EN-4
4.1.a Positioning of the handle	EN-4
4.1.b Connecting the batteries (for BC version only)	EN-4
4.1.c Electrical connection (for E version only)	EN-5
4.1.d Assembling the brush	EN-5
5.1 Charging the battery (For BC version only)	EN-5
5.2 Charging the battery (For BC Hybrid version only)	EN-6
6.1 Control panel	EN-6
7.1 Lever for handle angle regulation	EN-7
7.2 Machine handling	EN-7
8.1 Filling the tank	EN-7
9.1 Operation	EN-8
9.1.a Checks before use	EN-8
9.1.b Preparing the machine and choosing the cycle	EN-8
9.1.c Adjusting the brush ground contact	EN-8
9.1.d Adjusting the front wheel (only for BC version)	EN-8
9.1.e Using the machine	EN-9
9.1.f End of use and switching off	EN-9
9.1.g Parking the machine	EN-9
9.1.h Warnings while using the machine	EN-9
9.1.i Timer	EN-10
10.1 Draining the recovery water	EN-10
11.1 Maintenance and cleaning	EN-10
11.1.a Emptying and cleaning the clean water tank	EN-10
11.1.b Cleaning the recovery water tank	EN-11
11.1.c Cleaning the squeegee	EN-11
11.1.d Cleaning the clean water filter	EN-11
11.1.e Replacing the brush	EN-11
11.1.f Replacing the squeegee rubber blades	EN-12
11.1.g Squeegee incidence set up	EN-12
11.1.h Replacing the fuses (for BC version only)	EN-12
Troubleshooting	EN-13
Wiring diagrams	EN-15
BC version	EN-15
BC Hybrid version	EN-16
E version	EN-18

Technical data

	BC version	E version
Type of use	Operator on ground	Operator on ground
Characteristics		
Operation	Batteries.....	Cable
Type of batteries.....	N° 2 - 12V - 25Ah - (C5).....	-
Type of batteries (BC Hybrid version)	N° 1 - 24V - 700Wh	
Supply power	See type label	See type label
Power supply	24V Gel or AGM battery.....	-
Power supply (BC Hybrid version)	Li-ion	
Installed load	510 W.....	620 W
Forward movement.....	Manual.....	Manual
Washing width	385 mm	385 mm
Drying width.....	450 mm	450 mm
Theoretical hourly working capacity	1100 m2/h	1100 m2/h
Brushes / Pad		
Diameter / number	385 mm / 15" x 1	385 mm / 15" x 1
Motor power / number	260 W x 1.....	370 W x 1
Motor speed.....	130 rpm.....	155 rpm
Specific pressure	35 g/cm².....	35 g/cm²
Traction		
Maximum gradient which can be overcome at full load.....	2 %.....	2 %
Aspiration		
Motor power.....	250 W.....	250 W
Negative pressure (water column).....	68 / 700 mbar / mmH ₂ O.....	68 / 700 mbar / mmH ₂ O
Air flow rate.....	28 l / sec.....	28 l / sec
Noise level	65 dB (A)	65 dB (A)
Tank		
Type.....	Dual tank	Dual tank
Recirculation.....	No	No
Solution capacity	15 l.....	15 l
Recovery capacity	17 l.....	17 l
Dimensions (l x h x b)	864 x 1160 x 429 mm	855 x 1160 x 429 mm
Noise		
Operator sound pressure level	Lp (A) 65 dB(A)	Lp (A) 65 dB(A)
Combined uncertainty.....	kpA = 0,75 dB(A).....	kpA = 0,75 dB(A)
Vibrations		
Level of vibration transmitted to hand/arm (ISO 5349).....	1.61 m/s².....	1.61 m/s²
Combined uncertainty.....	kv = 6.3%.....	kv = 6.3%
Weight		
Empty weight	40 kg	40 kg
Weight with batteries	62 kg	-
Full load weight.....	78 kg	56 kg
Operating temperature	-10°C ÷ 25°C	-10°C ÷ 25°C

1.1 INTRODUCTION



HAZARD:

Before using the machine, carefully read the attached **“SAFETY WARNINGS FOR THE FLOOR SCRUBBER DRYER”** manual.

2.1 GETTING TO KNOW THE MACHINE (Fig. 1)

- 1) Guide handle.
- 2) Control console.
- 3) Floor washing operating pedal.
- 4) Lever for starting brush rotation and/or dispensing water.
- 5) Lever for rotating handle positions.
- 6) Recovery water tank.
- 7) Recovery water tank cover.
- 8) Power cable (for E version only).
- 9) Clean water tank.
- 10) Clean water filling opening.
- 11) Wheels.
- 12) Brush rotation flange.
- 13) Brush.
- 14) Squeegee.
- 15) Recovery water drain hose.
- 16) Squeegee water aspiration hose.
- 17) Battery charger (for BC version only - not for version BC Long Run).
- 18) Battery charger indicator (for BC version only - Not for version BC Long Run)
- 19) Water regulation tap.
- 20) Water filter.
- 21) Cable strap.
- 22) Parking/brush pressure adjustment wheel.
- 23) Angle adjustment handwheel.
- 24) Battery charge status LEDs.
- 25) Aspirator button.
- 26) Brush rotation button.
- 27) Water delivery button.

3.1 UNPACKING (Fig. 2)

Once the packaging has been removed as shown in the instructions on the packaging itself, check that the machine and all the components supplied are intact.

If any evident damage is found, contact the area agent and the carrier within 3 days of receipt.

- Remove the pack (28) containing the accessories supplied and the box (29) containing the brush.

3.1.a - Standard machine equipment (Fig. 3)

The accessories supplied are as follows:

- 30) Water filling hose.
- 31) Machine use and maintenance manual.
- 32) Battery charger instruction manual.
- 33) Filter for clean water tank opening.
- 34) 30A fuse.
- 35) Brush.
- 37) Cord with snap hook (version E).
- 38) Tear-proof hook (E version).

4.1 ASSEMBLING THE COMPONENTS

4.1.a - Positioning of the handle (Fig. 4)

- Unlock the handle (1) pulling the lever (5) and lift it placing it in the desired position.

4.1.b - Connecting the batteries (for BC version only) (Fig. 5)

- Unscrew the screw (39) that fixes the tank (6) to the handle support.
- Remove the recovery water tank (6) and connect the battery connectors (40) and (41). For the Hybrid version, connect connector (40a) to power supply (41a).
- Replace the recovery water tank (6).

4.1.c - Electrical connection (for E version only) (Fig. 6)

- Mount the snap hook with cable (37) on the handle (1).
- Insert the extension cable (42) (if present) in the anti-tear hook (38), blocking it as shown in the figure.
- Secure the hook (38) to the snap hook (37) and connect the socket (43) of the extension (42) to the plug (44) of the machine.
- Connect the power cord to an outlet having minimum capacity of 10A.



WARNING:

- Make sure that the mains system is equipped with an RCD (circuit breaker).
- Unwind the electric power cable completely before operating the appliance.
- Use an electrical extension lead only if in perfect condition; ensure that the section is appropriate for the appliance power rating.
- Never let the power cable run over sharp edges and do not tread on it.

4.1.d - Assembling the brush (Fig. 7)

- Position the brush (35) on the ground.
- Lift the front of the machine up by leveraging the handle (1 Fig. 1) and remove the polystyrene support (45).
- Position the flange (12) above the brush (35).
- Press the button (26 Fig. 1) that illuminates, then, for starting the rotation of the brush, press the levers (4 Fig. 1) until hearing the coupling "Click" of the attachment of the brush, then release levers (4 Fig. 1) and press the button (26 Fig. 1) and the light turns off.



WARNING:

Use only brushes provided by the manufacturer according to the model of the machine.

Using other types of brushes may compromise the safety of the machine.

5.1 CHARGING THE BATTERY (Fig. 8) (for BC version only)



DANGER:

Charge the batteries in well-ventilated areas which comply with standards in force in the country of use.

For safety-related information, follow what is described in chapter 1 of this manual.



WARNING:

For information and warnings about the battery and the battery charger, follow what is described in the battery and battery charger manual enclosed with this document.

- Move the machine to the vicinity of a main electrical socket.
- Unwind the cable (46) and connect it to the outlet.



WARNING:

Check that the mains voltage is compatible with the operating voltage of the battery charger.

- Leave the batteries to charge until the "Green" LED (47) comes on, then remove the power cable (46) and wind it up in the specific support.



N.B.:

10 hours are needed for complete battery charging.

Avoid partial recharges.



WARNING:

- Make sure that the mains system is equipped with an RCD (circuit breaker).
- Unwind the electric power cable completely before connecting it to the mains socket.
- Use an electrical extension lead only if in perfect condition; ensure that the

section is appropriate for the appliance power rating.

- Never let the power cable run over sharp edges and do not tread on it.
- The socket must be easily accessible.

5.2 CHARGING THE BATTERY (Fig. 9) (for BC Hybrid)



DANGER:

Charge the batteries in well-ventilated areas which comply with standards in force in the country of use.

For safety-related information, follow what is described in chapter 1 of this manual.



WARNING:

For information and warnings about the battery and the battery charger, follow what is described in the battery and battery charger manual enclosed with this document.

- Connect the socket of the extension to the plug (36) of the machine.
- Connect the power cord to an outlet having minimum capacity of 10A.
- The machine can be used while the battery is recharging.



WARNING:

Check that the mains voltage is compatible with the operating voltage of the battery charger.

- After the battery has charged, coil the cable (48), using the supplied strap (21).



NOTE:

For more information on operating the the charger see the operating manual attached to the charger.



NOTE:

It is possible to recharge partial.



WARNING:

- Make sure that the mains system is equipped with an RCD (circuit breaker).
- Unwind the electric power cable completely before connecting it to the mains socket.
- Use an electrical extension lead only if in perfect condition; ensure that the section is appropriate for the appliance power rating.
- Never let the power cable run over sharp edges and do not tread on it.
- The socket must be easily accessible.

6.1 CONTROL PANEL (Fig. 1)

24) LEDs status of battery charge (only for BC version)

The button (26) is illuminated when pressed, indicating the charging status of the battery.

- When the LED (24E) is illuminated, it indicates that the battery charge status is at maximum.
- When the LED (24C) is illuminated, it indicates that the battery charge status is at about half.
- When the LED (24A) is illuminated (red LED), it indicates that the battery charge status is at minimum.

With low battery (red LED (24A) on) the machine shuts down or doesn't start up. The red LED "R" flashes for a few seconds indicating that the battery must be charged (not for BC Long Runversion).

25) Aspirator button

On pressing the button (25) it illuminates and the functioning of the aspirator starts. The functioning of the aspirator is enabled by pressing the button (26).

26) Brush rotation button

On pressing the button (26) it illuminates and tension is fed to the circuits and rotation of the brush is enabled.

The starting of rotation of the brush is controlled by pressing levers (4).

27) Water dispensing button

On pressing the button (27) it illuminates and enables the dispensing of water for washing pavement.

The dispensing of water is controlled both by the switch (26) and by pressing the levers (4).

4) Brush rotation and/or water dispensing lever

Pressing the levers (4) and holding them pressed, starts the rotation of the brush and, if enabled, the dispensing of water.

7.1 LEVER FOR HANDLE ANGLE REGULATION (Fig. 10)

- By pulling on the lever (5), it is possible to vary the position of the handle (1); releasing the lever, the handle is positioned and locks in the nearest required position.



N.B.:

By positioning the handle (1) vertically, it is possible to effect a more thorough cleaning of corners by rotating the machine on itself.

7.2 MACHINE HANDLING (Fig. 1)

- To move the machine, lift the wiper (14) and place the wheel (22) in the parking position as indicated in the respective paragraphs.
- Move the machine by pushing its handle (1).

8.1 FILLING THE TANK (Fig. 11)



WARNING:

Only add clean mains water to the tank at a temperature no greater than 50°C.

- Remove the hose (30) supplied, connect one end (30a) to a tap and insert the other end (30b) in the tank (9).
- Turn on the tap and fill the tank (9).
- Pour the liquid detergent into the tank.



N.B.:

Use non-foamy detergents only. For the quantities, follow the instructions provided by the detergent manufacturer according to the type of dirt.



DANGER:

If the detergent comes in contact with the eyes and/or skin or if swallowed, refer to the use and safety information booklet provided by the manufacturer of the detergent.

- Once tank filling is complete, it is possible to:
Insert the hose (30) into the tank (9) fully where the end (30a) acts as a cap; or remove the hose (30) fully and insert the filter (33) supplied into the tank (9) opening.

9.1 OPERATION

9.1.a - Checks before use (Fig. 12)

- Check that the exhaust tube (15) of the recovery tank is properly coupled and properly sealed.
- Check that the squeegee water aspiration hose (16) is correctly inserted in the recovery tank.
- Check that the connector (53) on the squeegee (14) is not blocked and that the hose is connected correctly.
- To check the status of the battery charge; press the switch (26), controlling the LEDs (24) indicator (only for version BC).

9.1.b - Preparing the machine and choosing the cycle (Fig. 12)

- Press the button (26) that illuminates.
- Lower the wiper (14), using the pedal (3), releasing it from its coupling.

Working cycle:

- The machine can perform 4 working cycles:

Drying only cycle:

- To perform the drying cycle only, press button (25). The aspirator starts up.

Brushing only cycle:

- To effect only the brushing cycle, press the levers (4), releasing the levers (4) stops the brush.

Washing, brushing cycle:

- Press the button (27) to prepare for the dispensing of water, then press levers (4) to start the cycle.

Washing, brushing, drying cycle:

- Press the button (25) to start the aspirator, the button (27) to prepare the dispensing of water, then press the levers (4) to start the cycle.

9.1.c - Adjusting the brush ground contact (Fig. 13)

The machine has an adjustment system that makes it possible to have constant contact on the ground independently of the type and size (thickness) of the accessories that are used.

This adjustment is obtained by turning the handwheel (23) located in the front part of the machine.

If while cleaning (brushes rotating) you notice that the machine does not move straight but tends to go to the right or the left, this can be corrected using the same handwheel (23) with small rotations.

- Start the machine and begin the rotation of the brushes.

If the car tends to go to the right, gently turn the wheel button (23) to "S" until the direction is right;

If the car tends to go to the left, gently rotate the wheel button (23) to "D" until the direction is right.

9.1.d - Adjusting the front wheel (Fig. 13) (only for BC version)

The pressure of the brush on the floor can be adjusted as follows, based on the type of floor to be cleaned:

- Turn the handwheel (56) until lifting the wheel (22) off the ground;
- Turn the handwheel (56) until the wheel (22) touches the ground, then start the machine and check while moving it that the wheel (22) turns in the "position of maximum brush pressure".
- The pressure of the brush on the floor can be reduced using the handwheel (56) in order to slightly lift the brush; this adjustment can be useful when cleaning floors that are particularly porous/delicate or antislip floors.

9.1.e - Using the machine (Fig. 14)

- After having started the machine and selected the type of cycle, start the cleaning operation by pressing the levers (4) and holding them pressed to start rotation of the brush and the dispensing of water, then push the machine by means of the handles (54) in the handle bar (1).



N.B.:

Releasing the levers (4) stops the rotation of the brush and the dispensing of water.



N.B.:

To avoid damaging the floor, do not use the machine in a fixed position with brush rotation activated



N.B.:

The correct way of cleaning and drying the floor is to move the machine forwards. Moving the machine backwards damages the blades as well as not allowing correct aspiration of the water present on the floor.

- If necessary, adjust the quantity of washing water using the tap (55).
- Check the status of the battery charge by the indicator (24) (only on version BC).

9.1.f - End of use and switching off (Fig. 1)

- At the end of the cleaning operation and before turning off the machine, stop the dispensing of water and the rotation of the brush by releasing levers (4) and pressing the button (27) to continue with the aspirator to remove all of the liquid present on the floor, and then turn off the aspirator by pressing button (25).
- Lift the floor wiper (14) by pressing the pedal (3) to the end stop, engaging it in its slot.



WARNING:

Always lift up the squeegee at the end of cleaning in order to prevent the deformation of the rubber blades.

- Press the button (26) turning it off.
- Disconnect the electric power cable from the socket (for E version only).

9.1.g - Parking the machine (Fig. 13)

- At the end of the work day, manually lift the front part of the machine, using your hand to keep the wheel (22) on the ground until hearing an engagement "click". The brush will remain lifted in this position, preventing its deformation.
- To lower the brush, slightly lift the front part of the machine and pull the release knob (57).

9.1.h - Warnings while using the machine (Fig. 1)

- While using the machine, the occurrence of the following errors is signalled by the coming on of the leds.

Suction unit outlet overcurrent error

Led (A) is flashing and Led (B) is constantly lit.

Brush unit outlet overcurrent error

Led (A) is flashing and Led (C) is constantly lit.

Suction unit outlet open circuit error

Led (A) is flashing and Led (D) is constantly lit.

Brush unit outlet open circuit error

Led (A) is flashing and Led (E) is constantly lit.



NOTE:

When any of the above mentioned error signals is displayed, it is necessary to turn off the machine and then turn it on again, in order to set it back to normal functioning.

9.1.i - Timer (Fig. 1)

It is possible to visualize the working time of the machine proceeding as follows:

- To turn on the timer it is necessary to start the machine by pushing the "Brush rotation" button (26) and keeping it pressed.

**NOTE:**

The timer counts up to 9999 hours.

Indication of the hours of work by units:

- one flash of Led (A) followed by as many flashes of Led (E) as the units of hours of work.

Indication of the hours of work by tens:

- one flash of Led (A) followed by as many flashes of Led (D) as the tens of hours of work.

Indication of the hours of work by hundreds:

- one flash of Led (A) followed by as many flashes of Led (C) as the hundreds of hours of work.

Indication of the hours of work by thousands:

- one flash of Led (A) followed by as many flashes of Led (B) as the thousands of hours of work.

10.1 DRAINING THE RECOVERY WATER (Fig. 15)

At the end of the washing cycle or when the recovery water tank (6) is full, it is necessary to empty the tank by proceeding as follows:

**N.B.:**

To dispose of the recovery water, comply with the standards in force in the country in which the machine is used.

- Position the machine near to a drain outlet.
- Disconnect the hose (15) from the support.
- Remove the cap (58) from the hose (15) and drain all the water contained in the tank.

11.1 MAINTENANCE AND CLEANING

**WARNING:**

For information and warnings regarding maintenance or cleaning, follow the information given in the "General warnings during maintenance" in chapter 1 in this manual.

OPERATIONS TO PERFORM DAILY

11.1.a - Emptying and cleaning the clean water tank (Fig. 16)

**WARNING:**

At the end of the washing operations, it is compulsory to drain and clean the clean water tank to prevent deposits or scaling.

After draining the recovery water tank, drain the clean water tank as follows:

- Position the machine over a drain outlet.
- Turn the drain connector outwards (59).

- Unscrew the cap (60) of the connector (59) and allow the water to drain fully.
- Wash the inside of the tank, leaving the drain cap open and adding clean water through the front opening.
- When cleaning is complete, refit the cap (60) and check the condition of the gasket (61).

11.1.b - Cleaning the recovery water tank (Fig. 17)



WARNING:

At the end of the washing operations, it is compulsory to clean the recovery water tank to prevent deposits or scaling and the proliferation of bacteria, odours or mould.

- Drain the recovery water as shown in the relative paragraph, positioning the machine over a drain outlet.
- Remove the cover (62) and clean the inside of the cover and the aspirator safety float (63) with running water.
- Leaving the hose (15 Fig. 15) lowered and the cap off, add water through the upper opening (64), cleaning the inside of the tank until clean water comes out of the drain hose.
- Replace all the components in reverse order.

11.1.c - Cleaning the squeegee (Fig. 18)

In order to clean the squeegee correctly (14), it is necessary to remove it as follows:

- Pull the squeegee unit outwards (14).
- Disconnect the hose (16) from the squeegee (14).
- Loosen the knobs (65) and remove the squeegee (14).
- Wash the squeegee and in particular the rubber blades (66) and the inside of the aspiration connector (53).



N.B.:

If, during washing, it is clear that the rubber blades (66) are damaged or worn, it is necessary to replace them or turn them over.

- Replace all the components in reverse order.

OPERATIONS TO PERFORM WEEKLY

11.1.d - Cleaning the clean water filter (Fig. 19)

- Unscrew the transparent filter cover (67) and remove the filter (20).
- Clean the filter (20) in running water. If it is blocked, replace it.
- Replace all the components in reverse order.

OPERATIONS TO PERFORM WHEN NECESSARY

11.1.e - Replacing the brush (Fig. 1-7)

It becomes necessary to replace the brush when it is worn with bristles shorter than 2 cm or it must be replaced according to the type of floor to wash; to replace it, proceed as follows:

- Plug in the electrical cord (only for version E).
- Lift the machine up slightly at the front, levering the grips on the handle.
- Press the button (26 Fig. 1) to enable the rotation of the brush, then press levers (4 Fig. 1) and release them; the brush (35 Fig. 7) is disconnected.
- Replace the brush and then rest the brush holder flange (12 Fig. 7) on the brush (35 Fig. 7) and press the levers (4 Fig. 1) listening for the coupling "CLICK" of the brush on the flange.
- Press the button (26 Fig. 1) turning it off.

11.1.f -Replacing the squeegee rubber blades (Fig. 20)

When it becomes clear that drying the floor is difficult or traces of water remain on the floor, it is necessary to check the wear on the squeegee rubber blades (14):

- Remove the squeegee unit (14) as indicated in the "Cleaning the squeegee" paragraph.
- Loosen the finned nuts (68) and remove the rubber blades (66).

**N.B.:**

When the rubber blades (66) are worn on one side, on one occasion they may be turned over.

- Replace or turn over the rubber blades (66) without inverting them.
- Replace all the components in reverse order.

**N.B.:**

It is possible to have two types of rubber blade.

Para rubber blades for all types of floor and polyurethane rubber blades for mechanical workshop floors which are dirty with oil.

11.1.g -Squeegee incidence set up (Fig. 20)

- Lower the squeegee using the specific lever.
- Start the suction unit and advance for some metres before stopping the suction unit and the machine.
- Check the angle of incidence of the rubbers (66) on the floor.
Fig. A = too squatted
Fig. B = too high
Fig. C = correct position.
- Take off the squeegee from the machine.
- To set up, loosen the screw (70) of the wheel (71) and move the wheel vertically in the slot; by lifting the wheel, the angle of incidence increases, viceversa it decreases.

11.1.h -Replacing the fuses (for BC version only) (Fig. 21)**WARNING:**

Replace the blown fuse with one with the same amperage.

- Pull the plug (21) (BC Long Run version only).
- Unscrew the two bolts (72) that fasten the external box (73) and remove it.
- Unscrew the two bolts (74) of the printed circuit board (75) and remove it.

Fuse (76) Green 30A

Machine general protection.

- Put the cover (75) and the box (73) back into place in reverse sequence.

TROUBLESHOOTING

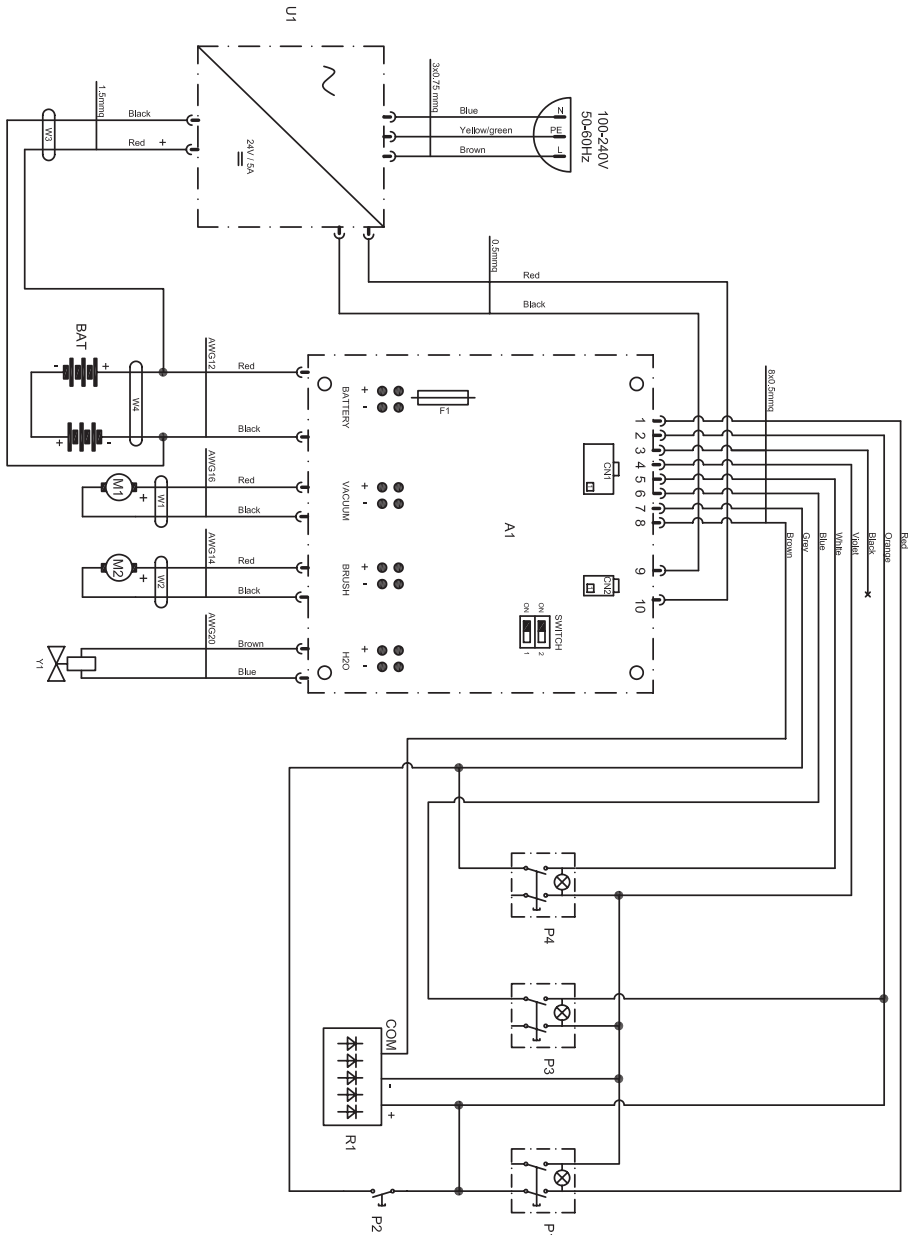
PROBLEM	CAUSE	SOLUTION
The machine does not start when pressing the central button.	Low battery (for BC version only).	Check that the battery is charged.
	Plug disconnected (for E version only).	Connect the plug.
	Main fuse blown (for BC version only).	Replace the GREEN 30A main fuse.
The brush does not rotate.	Brush unit outlet overcurrent error or brush unit open circuit error.	See paragraph "Warning signals while using the machine".
	Brush motor damaged.	Replace the ratiomotor.
	Brush rotation enabling button not pressed.	Press the button.
Aspirator does not work.	Suction unit outlet overcurrent error or suction unit open circuit error.	See paragraph "Warning signals while using the machine".
	Intake motor damaged.	Replace the turbine.
	Aspirator enabling button not pressed.	Press the button.
The machine does not dry well, leaving traces of water on the floor.	Aspirator off.	Start up the aspirator.
	Aspiration tube blocked.	Check and if necessary clean the aspiration tube that connects the squeegee to the recovery tank.
	Squeegee rubbers not correctly set up.	Set up the squeegee rubbers as indicated in paragraph "Squeegee setting".
	Recovery tank full.	Empty the recovery tank.
	Squeegee rubber blades worn.	Replace or turn over the squeegee rubber blades.

PROBLEM	CAUSE	SOLUTION
No water comes out.	Tank empty.	Fill the tank.
	Solenoid valve enabling button not pressed.	Press the button.
	Tap turned off.	Turn on the tap located at the bottom of the machine.
	Filter blocked.	Clean the filter.
	Solenoid valve does not work.	Call the technical support service.
Insufficient floor cleaning.	Unsuitable brushes or detergent.	Use brushes or detergents which are suitable for the type of floor or dirt to be cleaned.
	Brush worn.	Replace the brush.

BC version

A1Printed circuit board
BAT 2x 12V battery
U15A battery charger
Y1Electrovalve
F1 Main fuse 30A
M1Vacuum motor
M2Brush motor
P1.....ON/OFF switch
P2Brush button
P3Vacuum interruptor
P4 Electrovalve interruptor
R1 Battery level indicator
CN1 Handle connector
CN2 Battery charger connector

BC version

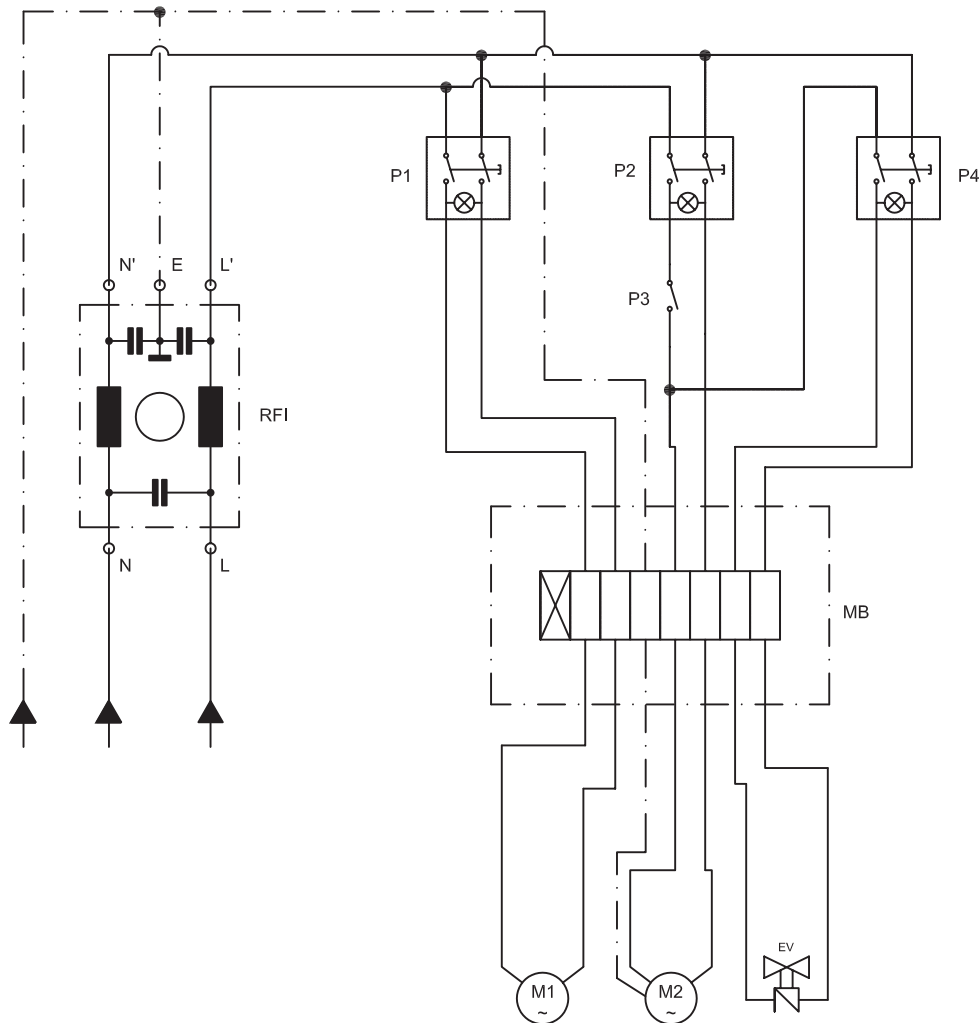


[illegible]

BC Hybrid version

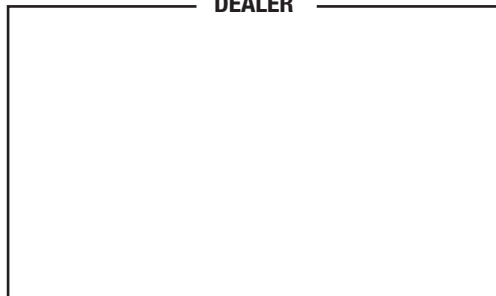
A1	.....	Printed circuit board
BAT	.....	1x 24V battery
U1	.....	5A battery charger
Y1	.....	Electrovalve
F1	.....	Main fuse 30A
M1	.....	Vacuum motor
M2	.....	Brush motor
P1	.....	ON/OFF switch
P2	.....	Brush button
P3	.....	Vacuum interruptor
P4	.....	Electrovalve interruptor
R1	.....	Battery level indicator
CN1	.....	Handle connector
CN2	.....	Battery charger connector

E version



- EV** Solenoid valve
M1 Aspiration motor
M2 Brush motor
MB Terminal board
P1 Aspiration switch
P2 Brush switch
P3 Brush button
P4 Solenoid valve switch
RFI Net filter

DEALER



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