

ROUND45
SM 55 **TOUCH**



ROUND45
SD 55 **TOUCH**

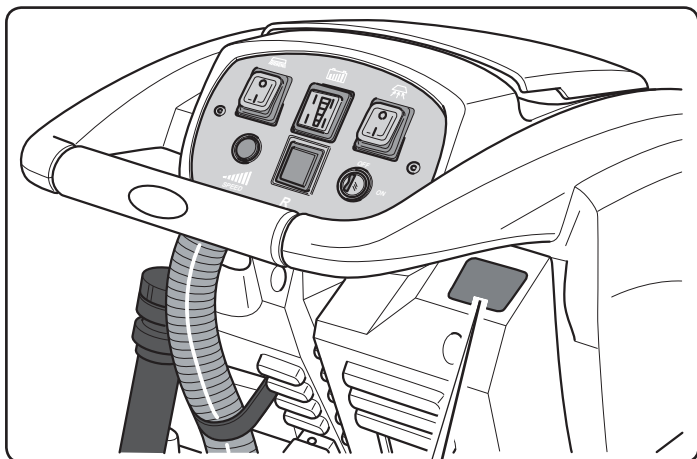
RAPID40
SM 55 **TOUCH**

RAPID40
SD 55 **TOUCH**

EN Use and Maintenance



49.0267.00
ed. 01-2019



1 — [Label Slot]

2 — [Label Fields]

3 — [Barcode]

4 — [IPX4]

5 — [GVW]

6 — [Year]

7 — [Art.]

8 — [Mod.]

Scrubber Dryer

..... V

..... W Hz

Nr.

MADE IN ITALY Year:

CE

MAX 2%

IPX4 GVW Kg

Mod:

Art:

.....

	1	2	3	4
IT	Produttore	Caratteristiche elettriche	N° Matricola	Grado di protezione
EN	Manufacturer	Electrical characteristics	Serial N°	Degree of protection
FR	Producteur	Caractéristiques électriques	N° Matricule	Degré de protection
DE	Hersteller	Elektrische Eigenschaften	Matrikelnr.	Schutzgrad
ES	Fabricante	Características eléctricas	N° Matricola	Grado de protección
PT	Produtor	Características elétricas	Número de série	Grau de protecção
NL	Producent	Elektrische eigenschappen	Serienummer	Beschermingsgraad
CS	Výrobce	Elektrické údaje	Výrobní č.	Úroveň ochrany
RU	Изготовитель	Электрические характеристики	Заводской №	Степень защиты
PL	Producent	Właściwości elektryczne	Nr. Fabryczny	Stopień ochrony
AR	المصنع	المواصفات الكهربائية	الرقم التسلسلي	درجة الحماية

	5	6	7	8
IT	Peso in ordine di marcia	Anno di costruzione	Codice articolo	Modello
EN	Weight in running order	Year of manufacture	Item code	Model
FR	Poids en ordre de marche	Année de construction	Référence de l'article	Modèle
DE	Gewicht bei Betrieb	Baujahr	Artikelnummer	Modell
ES	Peso en orden de marcha	Año de fabricación	Código del artículo	Modelo
PT	Peso em ordem de marcha	Ano de construção	Código do artigo	Modelo
NL	Gewicht in rijklare toestand	Bouwjaar	Artikelcode	Model
CS	Hmotnost v provozním stavu	Rok výroby	Kód položky	Model
RU	Эксплуатационный вес	Год выпуска	Код изделия	Модель
PL	Ciężar w stanie pracy	Rok produkcji	Kod produktu	Model
AR	الوزن في وضعية التشغيل	سنة المصنع	رمز المنتج	النموذج



English EN - 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.

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Technical data

	40 / 45 SM 55		40 / 45 SD 55	
Type of use	Operator on ground			
Characteristics				
Power supply	Battery		Battery	
Power supply voltage	See technical data plate			
Installed load	750 W	900 W	1090 W	1240 W
Forward movement	Manual		Tractioned	
Washing width *	530 mm		530 mm	
Drying width	750 mm		750 mm	
Theoretical hourly working capacity	2120 m²/h		2650 m²/h	
Brushes / Pad				
Diameter / Number	530mm/21"		530mm/21"	
Motor power / number	350 Wx1	500 Wx1	350 Wx1	500 Wx1
Motor speed	115 rpm		115 rpm.	
Specific pressure	18 gr/cm²	18,8 gr/cm²	18 gr/cm²	18,8 gr/cm²
Carter weight	26 Kg	27,2 Kg	26 Kg	27,2 Kg
Aspiration				
Motor power	400 W		550 W	
Negative pressure	1189 mmH₂O		1791 mmH₂O	
Air flow rate	28 l / sec		30 l / sec	
Noise level	Min. 57 dB (A)  / Max. 63 dB (A) 			
Traction				
Engine power	---		180 W	
Tank				
Recirculation	No		No	
Solution capacity	40 / 45 l		40 / 45 l	
Recovery capacity	42 / 47 l		42 / 47 l	
Dimensions (lxwxh) without wip-er	1210 x 560 x 1040 mm		1210 x 560 x 1020 mm	
Vibrations ISO 5349 m/sec²	< 2,5		< 2,5	
Weight				
Empty weight	90,5 Kg	91,7 Kg	109 Kg	110,2 Kg
Weight with batteries	143,5 Kg	144,7 Kg	189 Kg	190,2 Kg
Weight in running order GVW	188,5 Kg	189,7 Kg	234 Kg	235,2 Kg

* The washing width is intended with the machine operating and the brush pressed down.

	40 / 45 SM 55	40 / 45 SD 55
Accessories		
0.7 ø PPL brush	40.0003.00 POLY 0,7	40.0003.00 POLY 0,7
Brush spray guard	24.0405.00	24.0405.00
Front rubber wiper element	39.0181.00	39.0181.00
Rear rubber wiper element	39.0111.00	39.0111.00
Water loading tube	30.0024.00	30.0024.00
Optional accessories		
0.9 ø PPL strong brush	40.0103.00 POLY 0,9	40.0103.00 POLY 0,9
1.2 ø PPL brush	40.0303.00	40.0303.00
1.2 ø tynex brush	40.0203.00	40.0203.00
Set polyurethane rubbers	95.0055.00	95.0055.00
Drive mechanism	40.1003.00	40.1003.00

1.1 INTRODUCTION



DANGER:

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) Squeegee activation lever.
- 4) Water supply tap.
- 5) Solution tank.
- 6) Tank cover.
- 7) Clean water filling opening.
- 8) Wheels.
- 9) Splash guard.
- 10) Brush.
- 11) Squeegee.
- 12) Recovery water drain hose.
- 13) Squeegee water aspiration hose.
- 14) Recovery water tank.
- 15) Clean water drain/level tube.
- 16) Battery charger.
- 17) Clean water filter.
- 18) Brush up/down pedal.
- 19) Brush rotation activation button.
- 20) Touch sensor for the start-up and rotation of the brush/es.

3.1 UNPACKING (Figg. 1-2)

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 bag (21) containing the accessories.
- Cut the strap (22).
- Remove the wooden blocks (23 and 24).
- Lift the brush flange (42) by pressing down on the pedal (19) (see relative paragraph).

- Lift the wiper support (25) by lifting the handle (3 Fig. 1) (see relative paragraph).
- Position a chute and unload the machine from the bench.

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

The accessories supplied are as follows:

- 10) Brush/brushes.
- 11) Wiper.
- 26) Water filling hose.
- 27) Machine use and maintenance manual.
- 28) Battery charger instruction manual (if present).
- 29) Battery charger power cable (if present).
- 30) Filter for clean water tank opening.

4.1 ASSEMBLING THE COMPONENTS

4.1.a - Wiper assembly (Fig. 4)

- Loosen the two handwheels (32) located on the wiper (11).
- Assemble the wiper (11) on the support (25), tightening the two handwheels (32).
- Connect the tube (13) to the wiper connector (33).



N.B.:

Perform the previous operations with the wiper support lowered.

4.1.b - Brush assembly (Fig. 5)



HAZARD:

Operation to be performed by two people!

- Remove the Styrofoam protection (34).
- Assemble the brush as described in the paragraph “replacing the brush”.

4.1.c - Installing and connecting the batteries (Fig. 6)



WARNING:

CHECK THAT THE RECOVERY TANK AND THE CLEAN WATER TANK ARE EMPTY.

- Disconnect the plug (35).
- Press the button (36) and lift the tank (14) until completely overturned.
- Position the batteries (37) as shown in the figure and connect them as shown on the chart in Fig. 6 using the cables supplied.
- Tighten the terminals (38) using an insulated wrench.
- Lower the tank (14) until a coupling "click" is heard.
- Connect the plug (35) to the relevant socket (39).



N.B.:

The battery must be connected by specialised personnel.

5.1 CHARGING THE BATTERY



DANGER:

Charge the batteries in rooms which are well-ventilated and comply with applicable regulations 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 on board battery charger (if present) follow what is described in the battery charger manual enclosed with this document.



WARNING:

When the machine leaves the factory, it is calibrated to operate with gel batteries.

If other types of batteries are installed, see the paragraph "Parameter setting". The use of gel batteries with calibration for acid or other batteries is prohibited.



NOTE:

10 hours are needed for complete battery charging. Avoid partial recharges.

5.1.a - Charging the battery using the on board battery charger (if present) (Fig. 7)

- Move the machine close to a mains electricity socket.
- Connect the cable (29) included to the socket (29a), then connect the other extremity to the power grid outlet.
- Check that the green LED (41) flashes 2 times and then goes from the color "Green" to continuously lit "Red".



WARNING:

Make sure that the mains electrical voltage is compatible with the battery charger's operating voltage (230 Vac for the European market; 115 Vac for the American market; 50/60 Hz).

- Leave the batteries to charge until the "Green" LED (41) lights up, then remove the power cable (29) and put it away.

5.1.b - Charging the battery using an external battery charger (Fig. 8)



WARNING:

It is important to first connect the plug (35) to the socket (40) of the battery charger and then connect the battery charger to the mains socket, otherwise the batteries will not charge.

- Move the machine close to the battery charging station.
- Remove the battery plug (35) from the system socket (39).
- Connect the battery plug (35) to the external battery charger socket (40).
- Once battery charging is complete, reconnect the battery plug (35) to the system socket (39).

6.1 CONTROL PANEL (Fig. 9)

4) Water quantity adjustment tap

Turn the tap (4) counter-clockwise to increase the quantity of water or turn it clockwise to decrease it.

To disable water output, close the tap.

20) Touch sensor for traction start and brush rotation

(for models with traction)

Make sure the potentiometer (45) is regulated at least at minimum speed.

Use the touch sensor with the key selector (43) on **ON**, button (46) and (48) inserted to start the traction, brush rotation and water dispensing.

20) Touch sensor for traction start and brush rotation

(for models without traction)

Use the touch sensor with the key selector (43) on **ON**, button (46) and (48) inserted to start brush rotation and water dispensing.

43) ON/OFF key selector

- Insert the key in the block (43) and rotate it to **ON** to feed the circuits with voltage; rotate the key to **OFF** to cut off voltage from the circuits.

44) Reverse button "P"

(for model with traction only)

Use the potentiometer (45) to make sure the minimum traction speed has been selected.


Pressed and held, while action on the touch sensor (20), the machine will move in reverse to the operator.

45) Speed adjustment potentiometer

(only for models with traction)

Use the potentiometer (45) to adjust the traction speed. Rotate it clockwise to increase the speed, and counter-clockwise to reduce the speed.

46) Brush rotation enabling switch

Press the switch (46) that lights up to enable brush rotation; its operation is commanded by the touch sensor (20). To disable brush rotation, press the switch (46)  that goes off.

47) LEDs status of battery charge

It lights up when the key selector (43) is at **ON**, indicating that the battery is charged.

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

With low battery (red LED (**A**) on) the machine shuts down or doesn't start up.

The red LED "41" flashes for a few seconds indicating that the battery must be charged.

48) Suction unit activation switch

The operation of the switch is enabled by the switch (43) in position "**ON**".

Press the switch to **I**; it will light up and start the suction unit.

6.2 WORKING CYCLE EXAMPLE (Fig. 9)

Setting a washing cycle with brushes and drying.

- Turn the key selector (43) to "ON".
- Press the button (46) to enable brush rotation.
- Press the button (48) and the vacuum will start.



NOTE:

It is possible to alter the speed, even during the work cycle, with the machine in motion, by acting on the potentiometer.

- Brush the touch button (20); the machine will start its work cycle.

7.1 FILLING THE TANK (Fig. 10)



WARNING:

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

- Remove the hose (26) supplied, connect one end (26a) to a tap and insert the other end (26b) in the tank (5).
- Check that the tap (31) is open.
- Turn on the tap and fill the tank (5) to the **MAXIMUM LEVEL (NOT EXCEED)** indicated by the label placed on the transparent tube (15).
- Pour the detergent fluid in the tank.



NOTE:

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.

8.1 OPERATION (Fig. 1-9)

8.1.a - Checks before use

- Check that the exhaust tube (12) of the recovery tank is properly coupled and properly sealed.
- Check that the connector (49) on the squeegee (11) is not blocked and that the hose is connected correctly.
- Check that the clean water exhaust tube (15) is correctly coupled to the supports and that the tap (31) is open.
- Turn the key selector (43) to "ON" and check the battery charge.

8.1.b - Preparing the machine and choosing the cycle (Fig. 9-11)

- Turn the key selector (43) to "ON" and check the battery charge, indicated by the lighted low battery indicator (47).
- Release the lever (3 Fig. 11) and lower it; the floor squeegee (11 Fig. 11) is lowered.
- Press the pedal (19 Fig. 11), disengage it from its lodging and lift it: the brush (10 Fig. 1) will be lowered.

Working cycle:

- The machine can perform 4 working cycles:

Drying only cycle:

- To perform only the drying cycle, press the button (48 Fig. 9), the aspirator will start.

Use the appropriate controls to activate the drive mechanism, if available for the model in use.

Brushing only cycle:

- To perform only the brushing cycle, press the button (46 Fig. 9) to enable brush rotation.
- Close the water tap.
- Touch the touch sensor to start the rotation of the brush (for models with integrated traction it also starts traction).

Washing, brushing cycle:

- Press the button (46 Fig. 9) to enable brush rotation and water dispensing. Touch the touch sensor to start the rotation of the brush and the water supply (for models with integrated traction it also starts traction).

Washing, brushing, drying cycle:

- Press the button (48 Fig. 9) to start the suction unit; button (46 Fig. 9) to enable brush rotation and water dispensing. Touch the touch sensor to start the rotation of the brush and the water supply (for models with integrated traction it also starts traction).

8.1.c - Using the machine (Fig. 1)

- After starting the machine and choosing the type of cycle, start cleaning, by pushing the machine using the handle (1 Fig. 1) or by touching the touch sensor (20 Fig. 1), to start the drive (for models with).



NOTE:

Pay attention to particularly delicate floors: do not use the machine while it's stopped and the brush rotation on.

It is possible (for machines with traction), in the case of particularly difficult stains, to adjust the traction speed to 0 so that the brush always turns in the same position, without straining the traction motor.



NOTE:

The proper cleaning and drying of the floor is done by pushing the machine forwards; if you go backwards the machine will not perform drying; in this phase, always lift the wiper to avoid damaging the blades.

- Adjust the traction speed (if present) as shown above.
- If necessary, adjust the amount of washing water using the tap (4 Fig. 9).
- Check the battery charge status using the instrument (47).

8.1.d - Adjusting the movement direction (Fig. 12)

If during the cleaning operation (rotating brushes) we notice that the machine is not moving in a straight line, but tends to go left or right, you can adjust the direction of the wheels (50).

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

If the car tends to go to the right, gently turn the wheel button (50) to "S" until the direction is right;

If the car tends to go to the left, gently rotate the wheel button (50) to "D" until the direction is right.

8.1.e - Adjusting traction help (only for models without traction) (Fig. 12)

The function of the hand wheel (51) is to increase / decrease the ground pressure of the brush in order to facilitate thrusting forward the machine.

- Turning the hand wheel (51) clockwise will decrease traction adjustment and conversely it will increase it.

8.1.f - End of use and switching off (Fig. 9-13)

- At the end of the cleaning operations, before turning the machine off, interrupt water dispensing and brush rotation by acting on button (46 Fig. 9).
- Lift up the brush by pressing the pedal (19 Fig. 13) as far as it will go, fitting it in the designated slot.
- Continue with the aspirator inserted to aspirate all the liquid on the floor, then turn off the aspirator by pressing the button (48 Fig. 9).
- Lift the squeegee (11 Fig. 13) by lifting the lever (3 Fig. 13).

**WARNING:**

Always lift the wiper and the end piece after finishing the cleaning operations because this avoids the deformation of the rubber blades and of the brush hairs.

- Turn selector (43) to “OFF” to switch the machine off.

**WARNING:**

If the machine will not be used for a few days, it is recommended to disconnect the plug (35 Fig. 8) from the relative socket.

8.1.g - Maximum level of recovery water

If the suction unit turns off while using the machine, it means that the level of liquid inside the recovery tank has reached its maximum level.

Go to the water drainage station and drain the recovery tank as shown in the relative paragraph.

**NOTE:**

For the proper operation of the level sensors it is required to properly clean the inside of the tank (14 Fig. 16).

9.1 DRAINING THE RECOVERY WATER (Fig. 14)

At the end of the washing cycle or when the recovery water tank (14) is full, it is necessary to empty the tank by proceeding as follows:

**NOTE:**

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 (12) from the support.
- Remove the cap (52) from the hose (12) and drain all the water contained in the tank.

**NOTE:**

The amount of water that comes out can be modulated by pressing on the end of the tube (12).

- Put the cap (52) back on the hose (12) and reposition it on the relative support.

10.1 MAINTENANCE AND CLEANING



WARNING:

All maintenance operations must be performed with the machine off and tanks empty.

OPERATIONS TO PERFORM DAILY

10.1.a - Emptying and cleaning the clean water tank (Fig. 15)



WARNING:

At the end of the washing operations, it is compulsory to drain and clean the clean water tank (5) 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.
- Disconnect the tube (15) from the hooks, close the tap (31), lower the tube to the ground on the drain outlet, open the tap (31) and let the water drain completely.
- Wash the inside of the tank, leaving the drain hose open and adding clean water through the top opening.
- When cleaning is complete, lift the tube (15), leaving the tap (31) open; couple the tube in its recesses.
- To completely drain the water from the tank (5) disconnect the tube (53) from the quick connector (54) then turn the connector downwards, letting the water drain completely; or remove the filter cover (55).

10.1.b - Cleaning the recovery water tank (Fig. 16)



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 (6).
- Leaving the hose (12) lowered and the cap off, pour water into the tank (14) through a hose, cleaning it until clean water comes out of the drain hose.
- Replace all the components in reverse order.

10.1.c - Cleaning the squeegee (Fig. 4)

In order to clean the squeegee correctly (11), it is necessary to remove it as follows:

- Disconnect the hose (13) from the squeegee (11).
- Loosen the knobs (32) and remove the squeegee (11).
- Wash the squeegee and in particular the rubber blades (56) and the inside of the aspiration connector (33).



NOTE:

If, during washing, it is clear that the rubber blades (56) are damaged or worn, it is necessary to replace them or turn them over.

- Replace all the components in reverse order.

OPERATIONS TO PERFORM WHEN NECESSARY

10.1.d - Cleaning the clean water filter (Fig. 17)



NOTE:

Before cleaning the filter, make sure the clean water tank is empty.

- Unscrew and remove the cover (55).
- Remove the filter (17) and wash it in running water.
- Refit the filter (17) in its seat, then tighten the cover (55).

10.1.e - Replacing the brush (Fig. 18)

It is necessary to replace the brush when it is worn more than 2 cm or it must be replaced depending on the type of floor to be washed; to replace it proceed as follows:

- Lift up the brush using the pedal as shown in the relative paragraph.
- Insert a hand under the brush holder unit (9); to release the brush, turn it abruptly in the direction of rotation.
- Replace the brush, coupling it manually to the brush holder flange (9).
- Lower the brush-holder flange (9) using the pedal, as shown in the relative paragraph.
- Turn the key selector (43 Fig. 9) to "ON" to enable the commands.
- Press the button (46 Fig. 9) to enable brush rotation.
- Act on the touch sensor (20) positioned on the handle to start the rotation of the brush.

10.1.f - Replacing the squeegee rubber blades (Fig. 19)

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 (56):

- Remove the squeegee unit (11) as indicated in the "Cleaning the squeegee" paragraph.
- Press the locking device (57) and open the handle (58).
- Remove the two rubber mounting strips (59) and remove the outer rubber (60).
- Loosen the two turnbuckles (61) and remove the locking bar (62) and the inside rubber (63).



NOTE:

When the rubber blades (60) or (63) are worn on one side, on one occasion they may be turned over.

- Replace or turn over the rubber blades (60) or (63) without inverting them.
- Replace all the components in reverse order.



NOTE:

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.

10.1.g - Cleaning the recovery water tank (Fig. 20)

Remove the upper cover to access inside the recovery water tank.

- Loosen the knob (64) and remove the filter (65).
- Wash the filter (65) with running water and replace it in the machine, tightening the knob (64).
- If the filter (65) is particularly dirty you can open it by levering with a screwdriver on the coupling claw (66).

10.1.h - Cleaning the suction filter (Fig. 20)

- Lift the filter with its cover (67).
- Loosen the screw (68) and remove the filter (69).
- Wash the filter (69) in running water and reassemble it in reverse order.

10.1.i - Replacing the fuses (Fig. 21-22)



WARNING:

Replace the blown fuse with one with the same amperage.

- Remove the plug (35) from the socket (39).
- Remove the lid (70) by loosening the screws (71) in order to access the board.
- Unscrew the knobs (72) and remove the lid (73).

Fuse (74) - 30A

Traction protection.

Fuse (75) - 50A

General board fuse.

Fuse (76) - 75A

Battery fuse.

- Put the cover (73) back on.
- In order to replace the fuse on the positive pole of the battery, do the following:



WARNING:

Check for the recovery tank to be empty.

- Disconnect the plug (35).
- Press the button (36 Fig. 6) and lift the tank (14 Fig. 6) until completely overturned, then replace the fuse (75 Fig. 6).

10.1.l - Wiper adjustment (Fig. 23)

- It is possible to adjust the height of the wiper and adjust the incidence of the blades on the floor.

Height adjustment

The wiper can be height adjusted using the plates/shims placed on the wiper wheels (82).

- Loosen the knob (81).
- Lift the support (80) and place the plate (80a) over or under the plate (80) according to whether you want to lift or lower the wiper.
- Tighten the knob (81).



NOTE:

This operation must be performed on both wheels (82) equally.

Incidence adjustment

- Lower the wiper, using the lever.
- Start the aspirator and proceed for a few metres, then turn off the aspirator and stop the machine.
- Check the incidence of the rubber (56) blades.

Fig. A = too low

Fig. B = too high

Fig. C = correct position

- Use the grey knob (79) for adjustment, turning it anticlockwise to increase the incidence and in the other direction to decrease it.

10.1.m - Battery charger and digital instrument configuration (Fig. 24)



WARNING:

The machine leaves production with a standard configuration for operation with "Sonnenschein" gel batteries.



WARNING:

Disconnect the battery plug from the socket.

- Remove the cover (70) by unscrewing the screws (71).

Standard configuration with Sonnenschein gel batteries

- Remove the cap (49) located under the batter charger (16).
- Position the switches (DP1 and DP2) as shown in figure "A".

It is possible to modify the configuration as follows:

Configuration for gel batteries which are not Sonnenschein version

- Remove the cap (49) located under the battery charger (16).
- Position the switches (DP1 and DP2) as shown in figure "B".

Configuration for acid batteries

- Remove the cap (49) located under the battery charger (16).
- Position the switches (DP1 and DP2) as shown in figure "C".

TROUBLESHOOTING

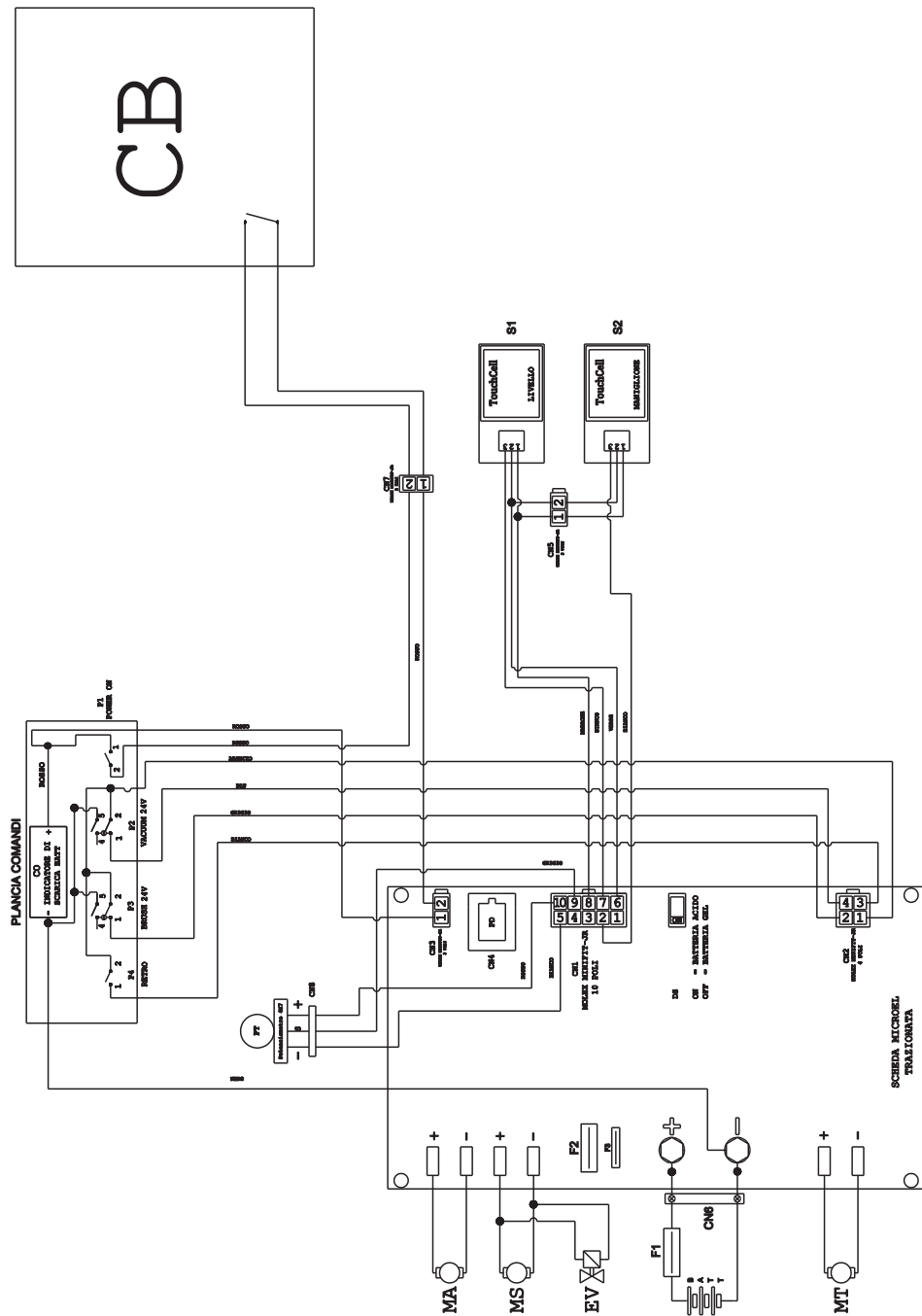
PROBLEM	CAUSE	SOLUTION
The machine will not start if you turn the key selector to ON .	Low battery.	Check that the battery is charged.
	Damaged key block.	Replace.
	Main fuse blown.	Replace the main 30A or 75A fuse.
	Damaged battery plug.	Replace.
The brush does not rotate.	Function card damaged.	Replace.
	Brush motor damaged.	Replace.
	Brush button damaged or not pressed.	Push the button or replace it.
Aspirator does not work.	Function card damaged.	Replace.
	Intake motor damaged.	Replace.
	Suction unit button damaged or not pressed.	Push the button or replace it.
	Recovery tank full.	Empty, wash and clean the tank and the probes.
	Blocked suction filter.	Clean the filter.

PROBLEM	CAUSE	SOLUTION
The machine does not dry well, leaving traces of water on the floor.	<p>Suction motor defective.</p> <p>Aspiration tube blocked.</p> <p>Dirty wiper.</p> <p>Recovery tank full.</p> <p>Dirty water filter clogged.</p> <p>Squeegee rubber blades worn.</p>	<p>Replace the motor.</p> <p>Check and if necessary clean the aspiration tube that connects the squeegee to the recovery tank.</p> <p>Clean the wiper.</p> <p>Empty the recovery tank.</p> <p>Clean the filter.</p> <p>Replace or turn over the squeegee rubber blades.</p>
No water comes out.	<p>Tank empty.</p> <p>Tap turned off.</p> <p>Filter blocked.</p> <p>Solenoid valve does not work.</p>	<p>Fill the tank.</p> <p>Open the tap</p> <p>Clean the filter.</p> <p>Call the technical support service.</p>
Insufficient floor cleaning.	<p>Unsuitable brushes or detergent.</p> <p>Brush worn.</p>	<p>Use brushes or detergents which are suitable for the type of floor or dirt to be cleaned.</p> <p>Replace the brush.</p>
<p>The brush does not rotate.</p> <p>Aspirator does not work.</p> <p>No water comes out.</p>	<p>Defective sensor.</p>	<p>Replace.</p>

11.1 WARRANTY

During the warranty period all defective parts will be repaired or replaced, free of charge. All parts affected by tampering or misuse will be excluded from the warranty. In order to enable the warranty procedure please contact your dealer or a relevant service center by presenting the valid purchase documents.

WIRING DIAGRAM

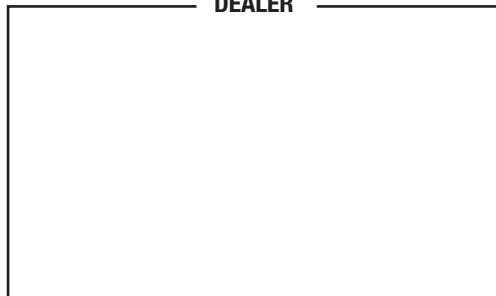


BATT	Battery
CB	Battery charger
CN 1	10-pole connector for electronic board
CN 2	4-pole switch connector
CN 3	2-way ON OFF connector
CN4	Diagnostics plug
CN5	2-pole flying connector, manual touch sensor
CN6	Battery connector
CN7	2-pole flying connector, battery charger
CN8	3-pole flying connector, potentiometer
CO	Low battery indicator
DS	Acid gel selector
EV	Solenoid
F1	Fuse 75A
F2	Fuse 50A
F3	Fuse 30A
MA	Vacuum engine
MS	Brush engine
MT	Traction engine
P1	ON OFF switch (key)
P2	Suction unit switch
P3	Brush switch
P4	Reverse button
PT	Potentiometer
S1	Recovery level touch sensor
S2	Touch sensor handle

<i>Plancia comandi</i>	Dashboard
<i>Scheda MICROEL trazione</i>	Retrieved MICROEL board
<i>ON= Batteria Gel</i>	ON= Gel battery
<i>OFF= Batteria acido</i>	OFF= Acid battery

ROSSO	Red
ARANCIO	Orange
BLU	Blue
GRIGIO	Grey
BIANCO	White
NERO	Black
MARRONE	Brown
VERDE	Green

DEALER



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