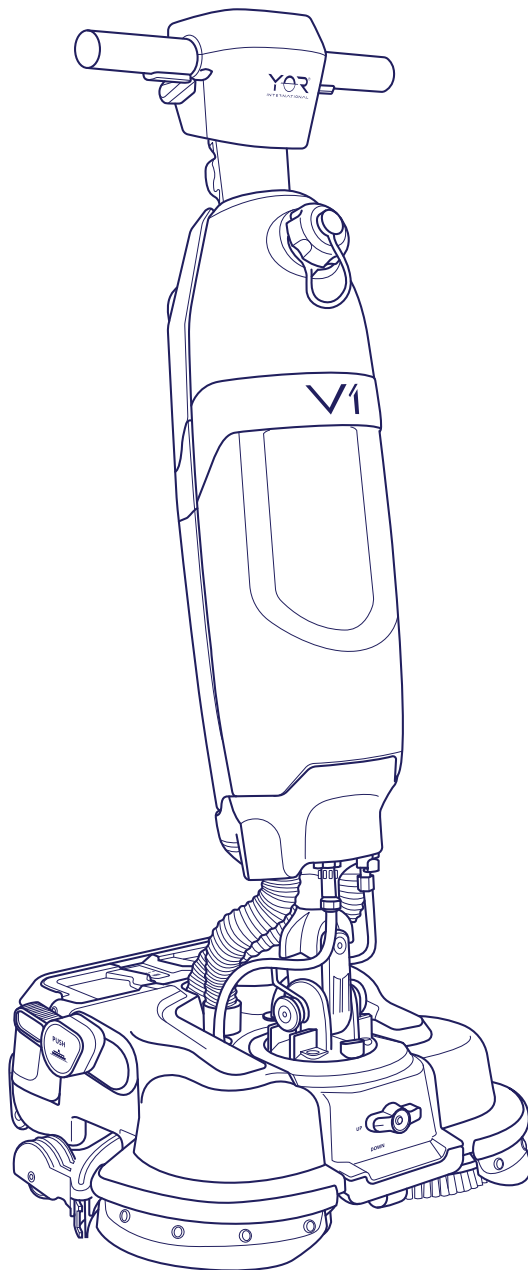




Use and maintenance manual

PROFESSIONAL VERTICAL SCRUBBING MACHINE



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DEFINITION OF LEVELS OF WARNING

 **DANGER:** indicates an imminent dangerous situation that, unless avoided, will result in death or serious injuries.

 **WARNING:** indicates a potentially dangerous situation that, unless avoided, could cause death or serious injury.

 **ATTENTION:** indicates a potentially dangerous situation that, unless avoided, could cause slight or moderate injuries.

 **N.B.:** instructs the reader to pay particular attention to the topic that follows.

GENERAL SAFETY REGULATIONS

Before using the machine, please read this document carefully and follow the instructions in it, along with the instructions in the document supplied with the machine itself, "GENERAL SAFETY REGULATIONS" (document number D10000024).

 **DANGER:** to power the machine, use only the battery supplied in the package or by the YOR service centre of reference or the one closest to you. OTHER TYPES OF BATTERY MUST NOT BE USED.

 **WARNING:** in the event of danger, act promptly to remove the battery inserted in the back of the machine.

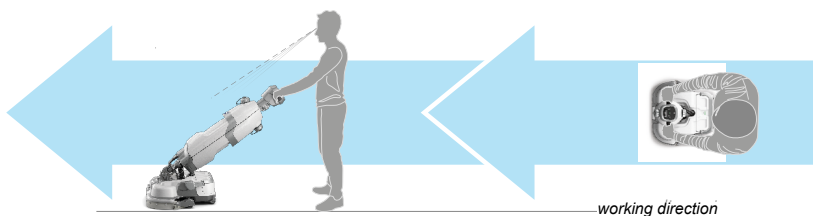
GENERAL DESCRIPTION

The descriptions contained in this document are not binding. The company therefore reserves the right to make any modifications at any time to elements, details, or accessory supply, as considered necessary for reasons of improvement or manufacturing/commercial requirements. The reproduction, even partial, of the text and drawings contained in this document is prohibited by law.

The company reserves the right to make any technical and/or supply modifications. The images are for reference purposes only, and are not binding in terms of design and supply.

REGULATIONS

All references to forwards and backwards, front and rear, right and left indicated in this manual should be understood as referring to the operator in a driving position with his hands on the steering wheel.



N.B.: in the image opposite with the arrow, forward gear is identified.

SYMBOLS USED IN THE MANUAL



Open book symbol with an "i":
Indicates the need to consult the instruction manual.



Open book symbol:
Tells the operator to read the user manual before using the device.



Covered place symbol:
The operations preceded by this symbol must always be carried out in a dry, covered area.



Information symbol:
Indicates additional information for the operator, to improve the use of the device.



Warning symbol:
Carefully read the sections preceded by this symbol meticulously following the instructions indicated for the safety of the operator and the device.



Danger symbol (moving carriages):
Indicates that the packed product should be handled with suitable carriages that conform to legal requirements.



Symbol indicating the compulsory use of protective gloves:
Indicates that the operator should always wear protective gloves, to avoid the risk of serious injury to his hands from sharp objects.



Recycling symbol:

Tells the operator to carry out the operations in compliance with environmental regulations in force in the place where the appliance is being used.



Disposal symbol:

Carefully read the sections marked with this symbol for disposing of the appliance.

TECHNICAL DESCRIPTION



The **V1** machine uses the mechanical action of two discoidal brushes with the added action of a chemical solution applied to the brush via a water system. The machine can clean a wide range of flooring and types of dirt, collecting, during its forward motion the dirt removed and the cleaning solution not absorbed by the floor. When the machine moves forward, the squeegee collects the dirt solution from the floor and the suction system transfers it to the recovery tank. **The machine must only be used for this purpose.**

INTENDED USE

This scrubbing machine was designed and built for the cleaning (scrubbing and drying) of smooth, compact flooring in the commercial, residential and industrial sectors by a qualified operator in proven safety conditions. The scrubbing machine is not suitable for cleaning rugs or carpet floors. It is only suitable for use in indoor (or at least covered) environments.



ATTENTION: the machine is not suitable for use in the rain, or under water jets.

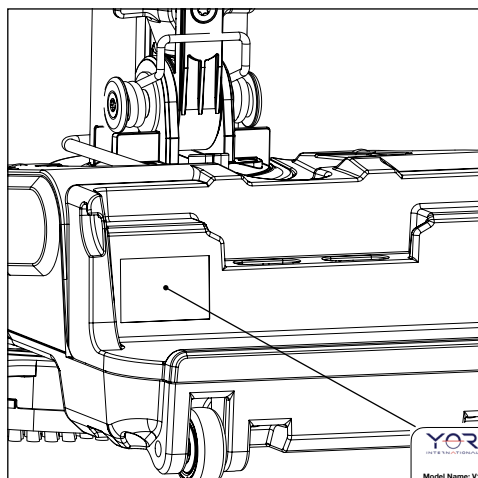


IT IS FORBIDDEN to use the machine in environments with an explosive atmosphere to clean dangerous powders or flammable liquids. In addition, it is not suitable as a means of transport for people or objects.

SAFETY

Operator cooperation is paramount for accident prevention. No accident prevention programme can be effective without the full cooperation of the person directly responsible for machine operation. The majority of occupational accidents that happen either in the workplace or whilst moving are caused by failure to respect the most basic safety rules. An attentive, careful operator is most effective guarantee against accidents and is fundamental in order to implement any prevention programme.

SERIAL NUMBER PLATE



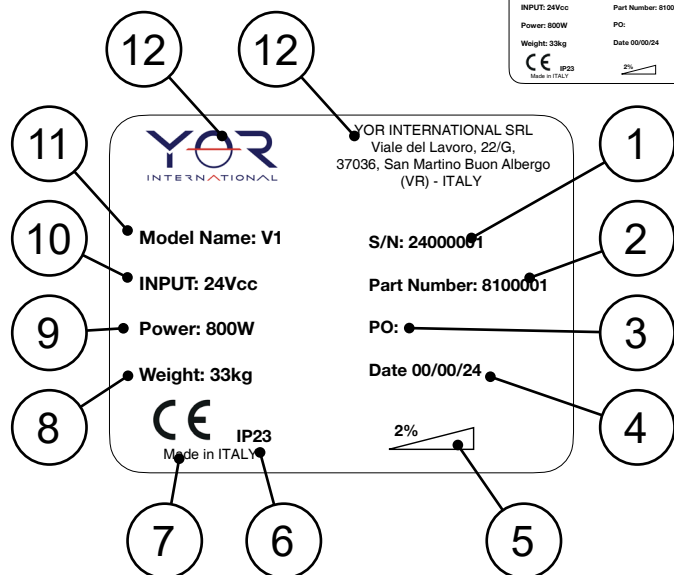
The serial number plate is located at the rear of the machine (in the battery compartment), and indicates the general machine characteristics, specifically the serial number. The serial number is a very important piece of information and should always be provided together with any request for assistance or when purchasing spare parts.

The serial number plate contains the following information:

1. The machine serial number

N.B.: the machine serial number is made up of eight figures:

- the first two figures correspond to the year of production (e.g. 24 indicates that the machine was produced in 2024)
- figures three to eight correspond to a progressive number



2. The machine ID code
3. The ID code of the production order issued by the company to produce the machine
4. The year of machine manufacture
5. The value expressed as a % of the maximum gradeability during work - see ["TECHNICAL DATA" on page 10](#)
6. The IP protection rating of the machine
7. The CE symbol

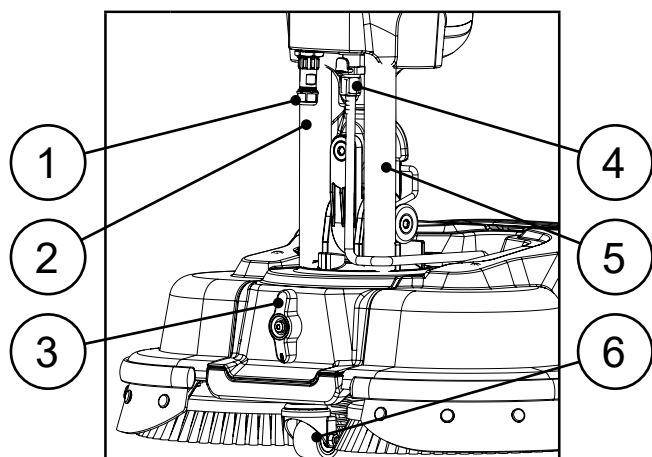
N.B.: this mark confirms that the product has been evaluated by the manufacturer as respecting the EU requisites regarding safety, health and environmental protection

8. The value in kg of the GVW (Gross Vehicle Weight) - see ["TECHNICAL DATA" on page 10](#)
9. The value, expressed in W, of the nominal power used by the machine - see ["TECHNICAL DATA" on page 10](#)
10. The value, expressed in V, of the nominal voltage of the machine - see ["TECHNICAL DATA" on page 10](#)
11. The machine ID name.
12. The commercial name of the machine, and the manufacturer's address.

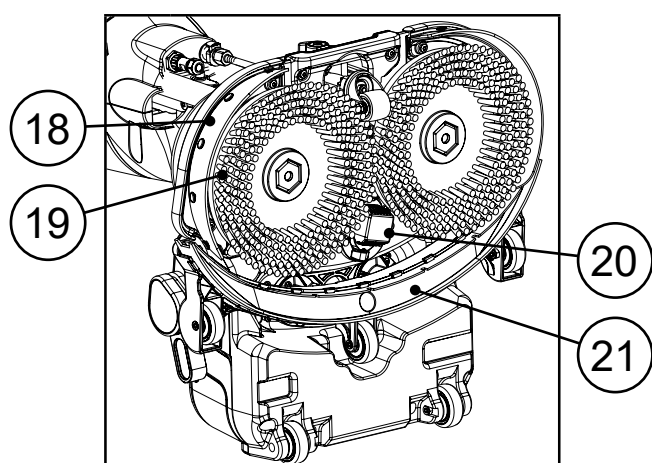
N.B.: fill in the following table at the time of delivery and/or installation, so it can be used as a future reference when necessary.

MACHINE ID NAME	
SERIAL NUMBER	
DATE OF DELIVERY AND/OR INSTALLATION	

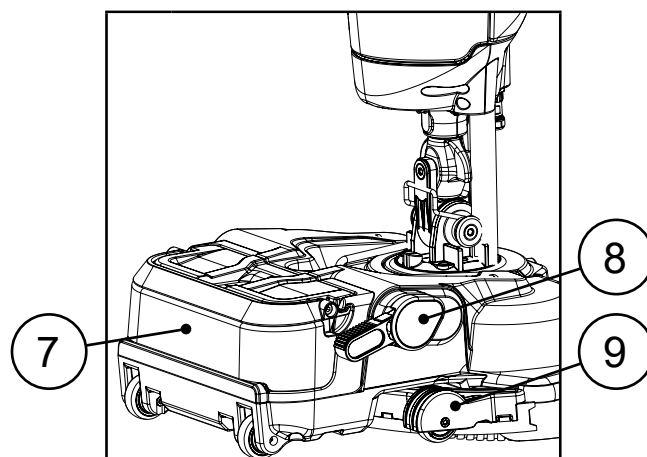
MAIN MACHINE COMPONENTS



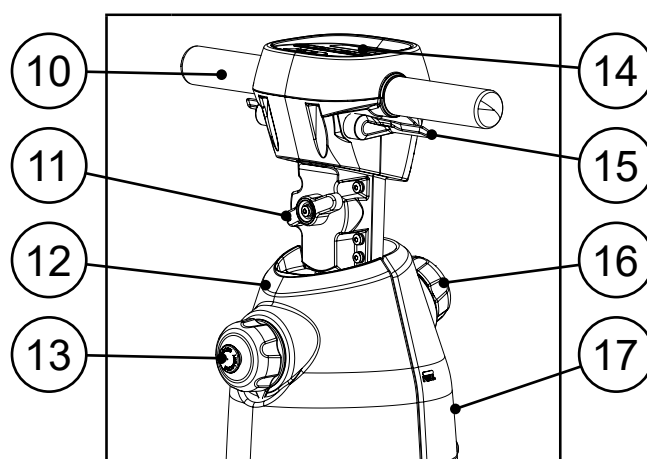
1	Electrical control column connector
2	Air vacuum hose on suction motor inlet
3	Control knob for swivel transportation wheel
4	Connector for detergent solution delivery hose
5	Squeegee vacuum hose
6	Front swivel transportation wheel



18	Brush head splashguard
19	Discoidal brush
20	Suction motor exhaust air filter
21	Squeegee body



7	Power supply battery
8	Squeegee control lever
9	Squeegee body support



10	Control handlebar
11	Control handlebar release knob
12	Recovery tank
13	Recovery tank cap
14	Control panel
15	Dead man's lever
16	Solution tank cap
17	Solution tank

TECHNICAL DATA

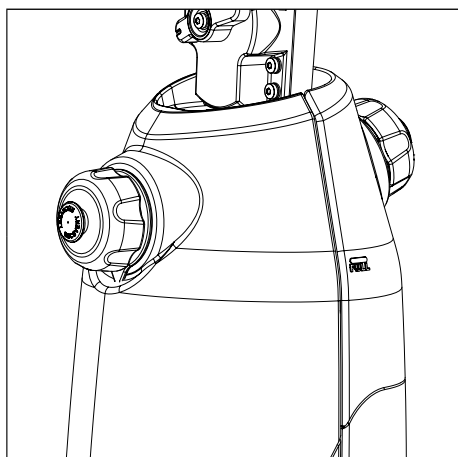


N.B.: for any other technical data, contact your YOR service centre of reference or the one closest to you, or visit the website.

TECHNICAL DATA	IS of U.M. [International System]	V1
Rated voltage [IEC 60335-2-72; IEC 62885-9]	V	24
Nominal input power [IEC 60335-2-72; IEC 62885-9]	KW	0,8
Working gradeability with GVW [IEC 60335-2-72; IEC 62885-9]	%	2
Machine working weight (gross weight - GVW) [IEC 60335-2-72; IEC 62885-9]	kg	33
Weight during transport [IEC 60335-2-72; IEC 62885-9]	kg	29
Machine dimensions during working phase (length; height width)	mm	470 1170 505
Operator station sound pressure level (Lp _A) [IEC 60335-2-72; IEC 62885-9; ISO 11201]	dB (A)	<70
Sound power level (Lw _A) [IEC 60335-2-72; IEC 62885-9; ISO 3744]	dB (A)	<80
Uncertainty Kp _A	dB (A)	±1.5
Hand-arm vibrations [IEC 60335-2-72; IEC 62885-9; ISO 5349-1]	m/s ²	<2.5
Vibration measurement uncertainty		±4%

TECHNICAL DATA	SIB of U.M. [Imperial Measurement System]	V1
Rated voltage [IEC 60335-2-72; IEC 62885-9]	V	24
Nominal input power [IEC 60335-2-72; IEC 62885-9]	KW	0,8
Working gradeability with GVW [IEC 60335-2-72; IEC 62885-9]	%	2
Machine working weight (gross weight - GVW) [IEC 60335-2-72; IEC 62885-9]	lb	72,75
Weight during transport [IEC 60335-2-72; IEC 62885-9]	lb	63,93
Machine dimensions during working phase (length; height width)	in	18,50 46,06 19,88
Operator station sound pressure level (Lp _A) [IEC 60335-2-72; IEC 62885-9; ISO 11201]	dB (A)	<70
Sound power level (Lw _A) [IEC 60335-2-72; IEC 62885-9; ISO 3744]	dB (A)	<80
Uncertainty Kp _A	dB (A)	±1.5
Hand-arm vibrations [IEC 60335-2-72; IEC 62885-9; ISO 5349-1]	m/s ²	<2.5
Vibration measurement uncertainty		±4%

SYMBOLS USED ON THE MACHINE

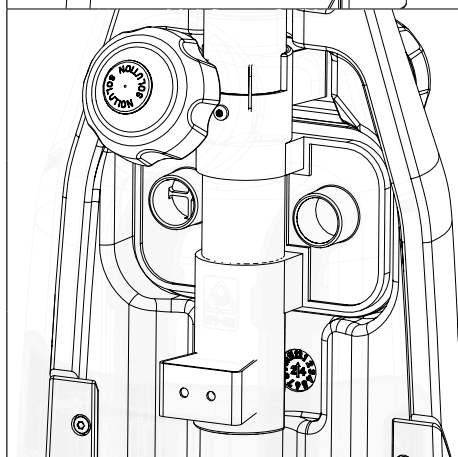


Solution tank filling symbol:

Located on the side of the machine's solution tank, to indicate the amount of detergent solution in the tank

The word RECOVERY:

Located on the top of the cap, to indicate the recovery tank



The word SOLUTION:

Located on the top of the cap, to indicate the solution tank

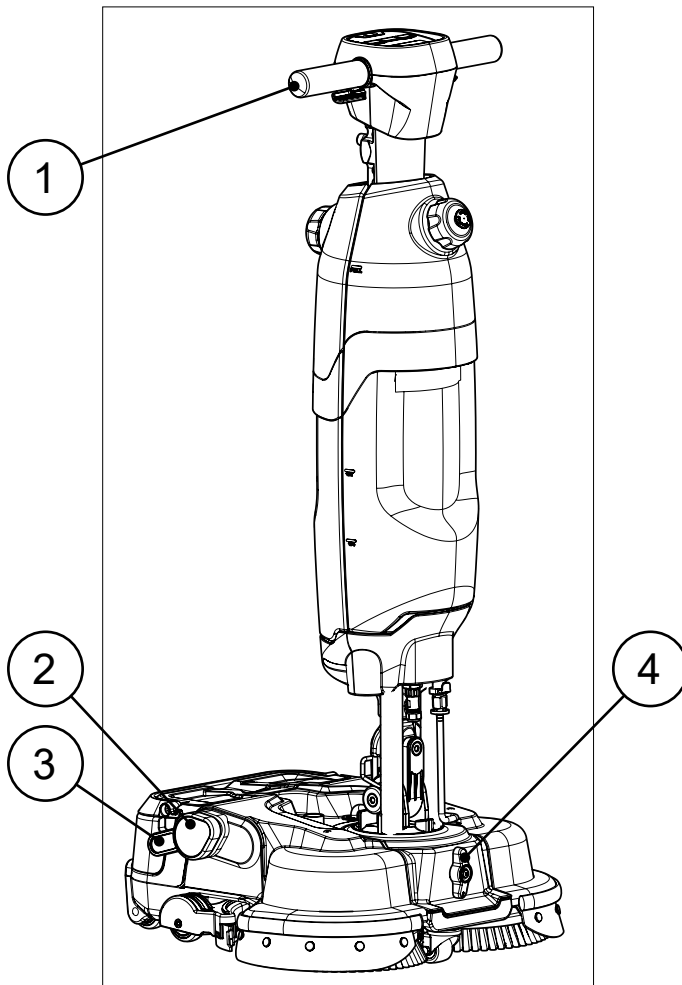
Suction motor symbol:

Located on the back of the hose support, to indicate where to attach the suction motor inlet air hose

Squeegee body symbol:

Located on the back of the hose support, to indicate where to attach the squeegee body suction hose

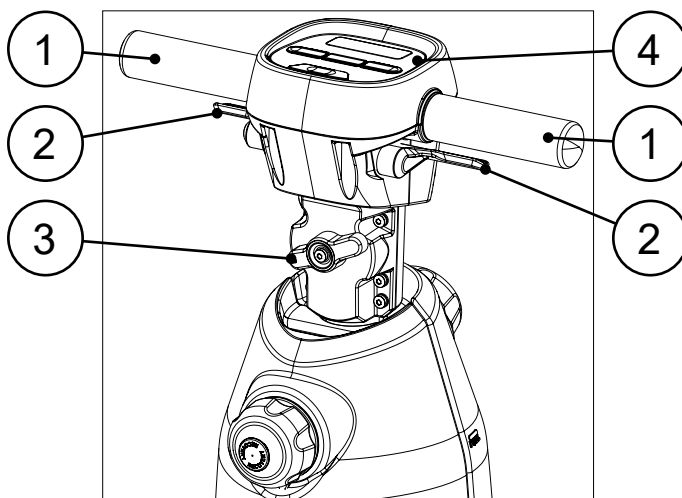
CONTROL STATION



The machine has an easy and user-friendly control station, comprised of mainly the following:

1. DASHBOARD
2. Squeegee uncoupling button
3. Squeegee lifting pedal
4. Control knob for the front swivel transportation wheel

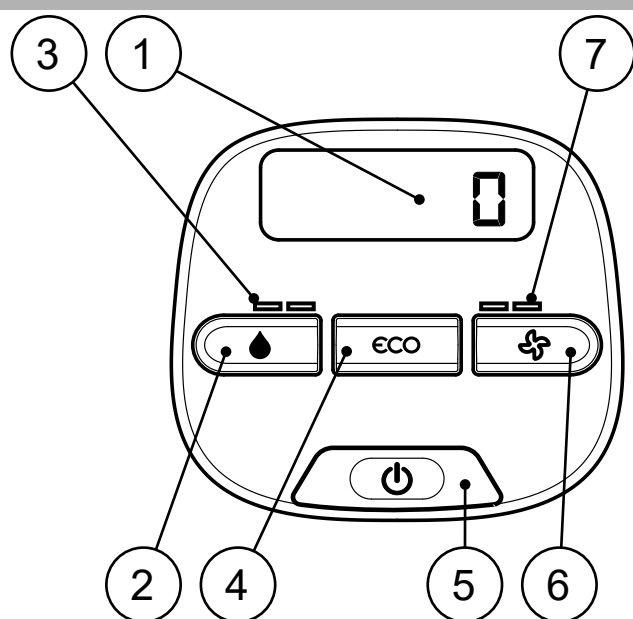
DASHBOARD



The dashboard consists primarily of:

1. Control handlebar
2. Dead man's lever
3. Control column uncoupling knob
4. Control display

CONTROL DISPLAY



The control display consists of the following:

1. Hour meter
2. Detergent solution regulation button - see
3. Detergent solution level display - see
4. ECO MODE working program activation button - see
5. Main machine switch
6. Suction motor performance level regulation button - see
7. Suction motor performance level display - see

PREPARATION OF MACHINE

HANDLING THE PACKAGED MACHINE

The overall dimensions of the entire package are:

PACKAGE	IS of U.M. [International System]	SIB of U.M. [Imperial Measurement System]
Length	117cm	46.06in
Width	40cm	15.75in
Height	51cm	20.08in

The weight of the package is 35kg (77.16lb)

i N.B.: it is recommended that all the packaging components be kept for any future machine transportation.

⚠ DANGER: handle the packaged product with handling trolleys that comply with the load handling guidelines in force in the country of use, and with the dimensions and mass of the package itself.

HOW TO UNPACK THE MACHINE

The machine is shipped in specific packaging. To remove it, proceed as follows:

1. Place the lower part of the outer packaging in contact with the floor.

i N.B.: use the pictograms printed on the box as a reference.

2. Remove the boxes that are inside the package.

! WARNING: the machine is contained in specific packaging materials, whose elements (plastic bags, staples, etc.) can pose potential hazards, and must not be left within reach of children, disabled persons, etc.

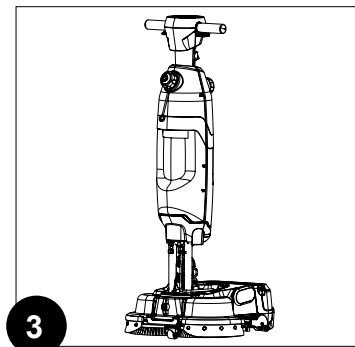
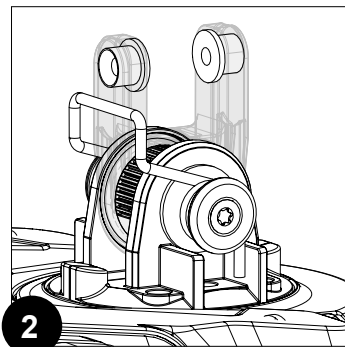
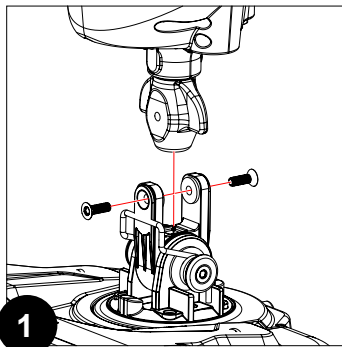
3. Remove all the components from the boxes.

! CAUTION: it is recommended to wear the appropriate PPE (Personal Protective Equipment), suitable for the work to be carried out.

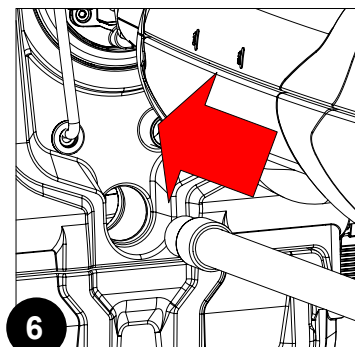
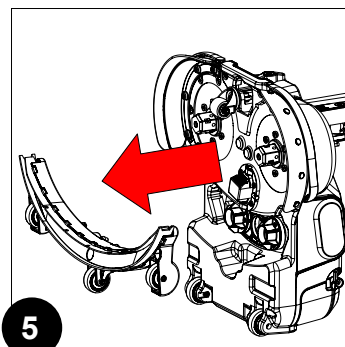
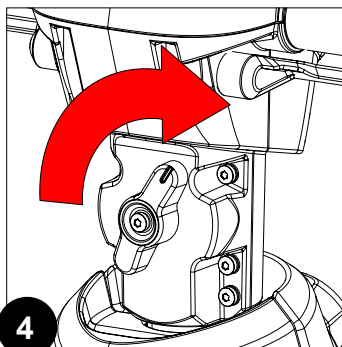
4. Place the machine body on the floor.
5. Fasten the control handlebar above the joint on the brush head body (**Fig. 1**).

! WARNING: position the centring bushings in the holes in the lower part of the joint (**Fig. 2**).

! N.B.: the equipment to be used for this operation is supplied in the machine package.



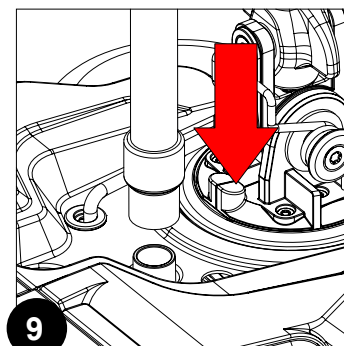
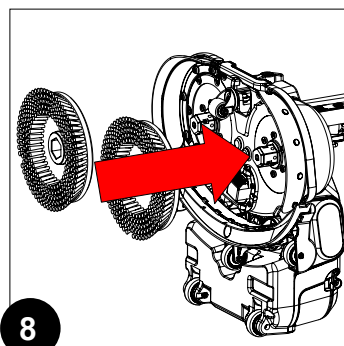
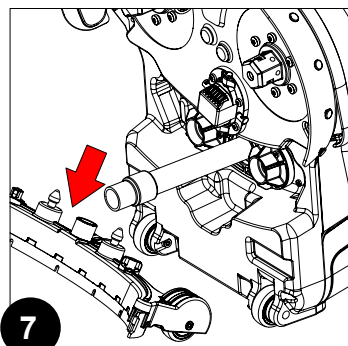
6. Block the rotation of the control column by turning the uncoupling knob clockwise (**Fig. 4**).
7. Rotate the machine, bringing the control column into contact with the floor.
8. Remove the squeegee from the machine (**Fig. 5**).
9. Pass the squeegee suction hose through the hole in the machine body (**Fig. 6**), then connect the sleeve in the suction hose to the nozzle in the squeegee body (**Fig. 7**).



10. Attach the squeegee to the squeegee support.

⚠ ATTENTION: make sure the centring pins in the squeegee body are correctly positioned in the holes in the squeegee support.

11. Attach the brushes to the brush-holder flanges in the brush head body (**Fig. 8**).
12. Rotate the machine to its idle position.
13. Connect the sleeve in the suction motor inlet air hose to the nozzle in the machine body (**Fig. 9**)



14. Position the recovery tank on the machine (**Fig. 10**).

⚠ ATTENTION: position the recovery tank on the support bracket and turn it until it is in place, then attach the retainer (in the tank) to the control column.

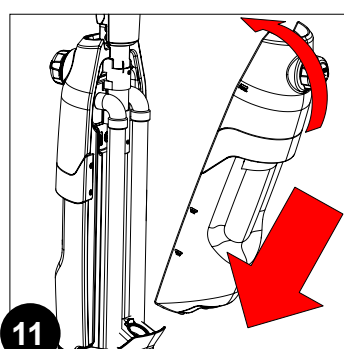
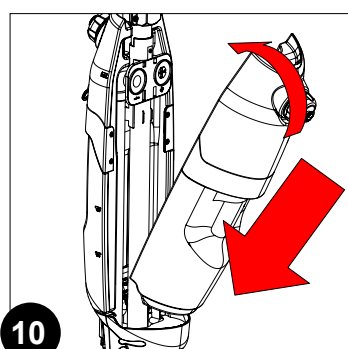
15. Position the solution tank on the machine (**Fig. 11**).

⚠ ATTENTION: position the solution tank on the support bracket and turn it until it is in place, then attach the retainer (in the tank) to the control column.

⚠ ATTENTION: make sure the valve in the tank is connected to the valve seat in the tank support.

16. Connect the male connector (in the detergent solution delivery hose) to the female connector in the solution tank.

⚠ ATTENTION: pay the utmost attention when connecting the cable, making sure the white dot in the male connector is aligned with the black triangle in the female connector (**Fig. 12**).



17. Connect the connector in the control display supply cable to the connector in the tank support.

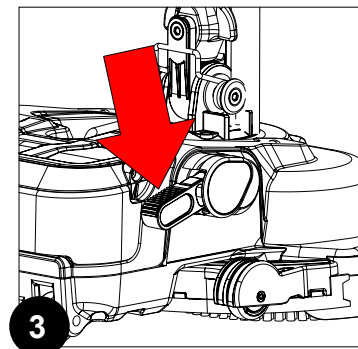
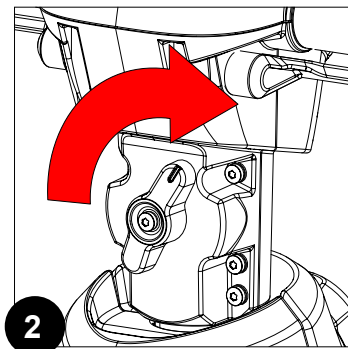
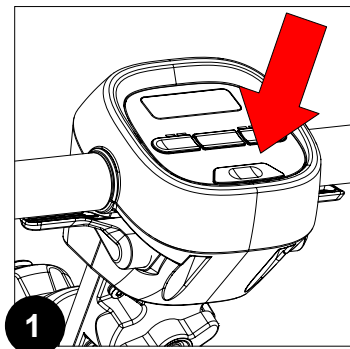
MACHINE SAFETY

To ensure that work is carried out in the best safety conditions, proceed as follows:



CAUTION: it is recommended to wear the appropriate PPE (Personal Protective Equipment), suitable for the work to be carried out.

1. Switch off the machine by pressing the main switch for more than two seconds (**Fig. 1**).
2. Bring the control column to its idle position, then block column rotation by turning the uncoupling knob clockwise (**Fig. 2**).
3. Make sure the recovery tank is empty. If this is not the case, empty it. See [“DRAINING THE RECOVERY TANK” on page 42](#).
4. Make sure the solution tank is empty. If this is not the case, empty it. See [“EMPTYING THE SOLUTION TANK” on page 44](#).
5. Bring the squeegee body to its idle position (raised off the floor), then press the squeegee control pedal (**Fig. 3**).



6. Take the battery out of the machine.

HOW TO MOVE THE MACHINE

The procedure for transporting the machine full safely is as follows:



CAUTION: it is recommended to wear the appropriate PPE (Personal Protective Equipment), suitable for the work to be carried out.

1. Perform all the operations required to secure the machine. See [“MACHINE SAFETY” on page 16](#).
2. Place the machine on the transport vehicle.



CAUTION: during this operation, check there are no people or objects near the machine.

3. Secure the machine to the means of transport using an appropriate number and type of fastening elements, based on its weight and size.



CAUTION: secure the machine according to the directives in force in the country of use, so that it cannot slide or tip over.

TYPE OF BATTERY TO BE USED

To power the machine, use only the battery supplied in the package or by a YOR service centre technician. **OTHER TYPES OF BATTERY MUST NOT BE USED.**

The machine is powered by a lithium-ion battery. The battery compartment can house a single 24V battery slot.

BATTERY MAINTENANCE AND DISPOSAL

For battery maintenance and charging, follow the instructions in the document provided by the battery manufacturer.

When the battery is dead, it must be taken to a suitable disposal centre.



N.B.: the battery is classified as dangerous waste and, as such, it is compulsory to take it to a legally authorised disposal centre.

TYPE OF BATTERY CHARGER TO BE USED

To recharge the machine, use only the battery charger supplied in the package or by a YOR service centre technician. **OTHER TYPES OF BATTERY CHARGER MUST NOT BE USED.**

BATTERY CHARGER MAINTENANCE AND DISPOSAL

For battery charger maintenance and use, follow the instructions in the document provided by the battery charger manufacturer.

When the battery charger can no longer be used, it must be taken to a suitable disposal centre.



N.B.: the battery charger is classified as dangerous waste and, as such, it is compulsory to take it to a legally authorised disposal centre.

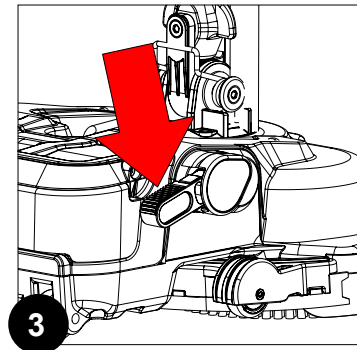
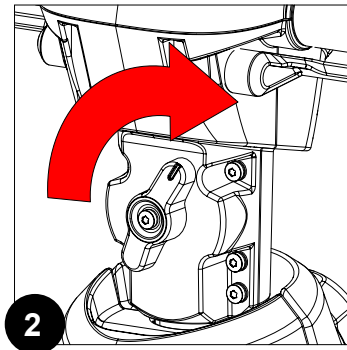
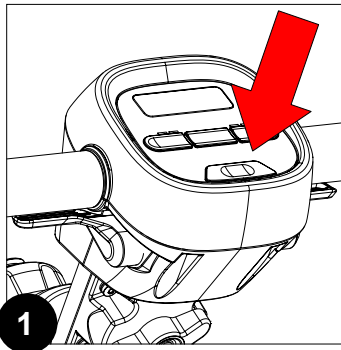
INSERTING THE BATTERY INTO THE MACHINE

The batteries must be inserted in the machine by a specialised technician from the reference YOR service centre or the one closest to you.

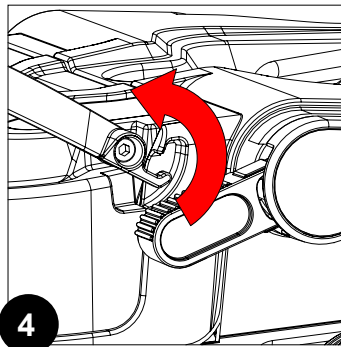
 **WARNING:** YOR disclaims all responsibility for injury to people or damage to property in the event that the batteries are replaced by an unauthorised technician.

 **CAUTION:** it is recommended to wear the appropriate PPE (Personal Protective Equipment), suitable for the work to be carried out.

1. Switch off the machine by pressing the main switch for more than two seconds (**Fig. 1**).
2. Bring the control column to its idle position, then block column rotation by turning the uncoupling knob clockwise (**Fig. 2**).
3. Make sure the recovery tank is empty. If this is not the case, empty it. See [“DRAINING THE RECOVERY TANK” on page 42](#).
4. Make sure the solution tank is empty. If this is not the case, empty it. See [“EMPTYING THE SOLUTION TANK” on page 44](#).
5. Bring the squeegee body to its idle position (raised off the floor), then press the squeegee control pedal (**Fig. 3**).



6. Insert the battery in the back of the machine, making sure the retainers in the handle are correctly positioned in the upper carter (**Fig. 4**).



FILLING THE SOLUTION TANK

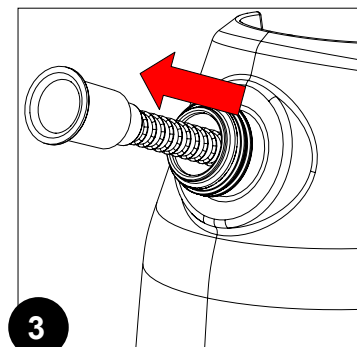
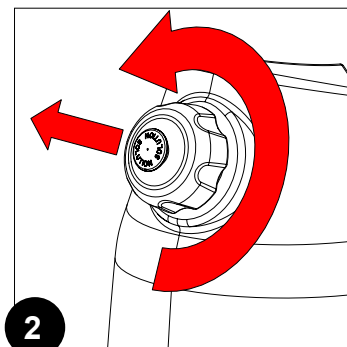
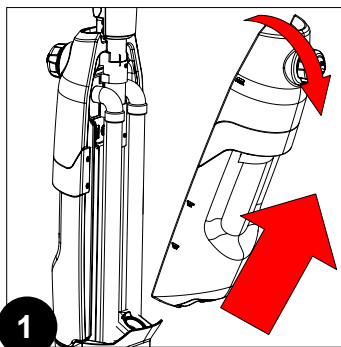
Proceed as follows to fill the solution tank with water:

1. Take the machine to the usual place for filling the solution tank.
2. Perform all the operations required to secure the machine. See [“MACHINE SAFETY” on page 16](#).



CAUTION: it is recommended to wear the appropriate PPE (Personal Protective Equipment), suitable for the work to be carried out.

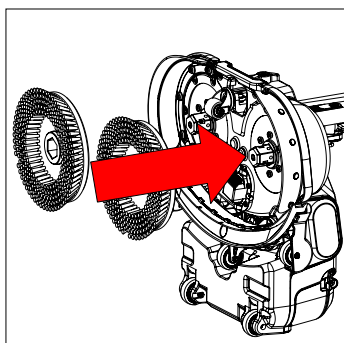
3. Remove the solution tank from the machine (**Fig. 1**).
4. Remove the cap from the solution tank (**Fig. 2**).
5. Take out the coiled hose (**Fig. 3**) and fill the solution tank.



N.B.: to see the quantity in the tank, use the symbol next to it.

-  **ATTENTION:** fill with clean water, at a temperature no higher than 50°C (122°F) and no lower than 10°C (50°F).
-  **ATTENTION:** add the liquid detergent to the tank in the concentration and manner indicated on the detergent manufacturer's label.
-  **N.B.:** to prevent an excessive amount of foam from forming, which could damage the suction motor, use the minimum percentage of detergent required.
-  **CAUTION:** protective gloves should always be worn when handling detergents or acidic or alkaline solutions, to avoid serious hand injuries.
-  **ATTENTION:** always use detergents which have a manufacturer's label that indicates that they are suitable for use with floor scrubbing machines. Do not use acid or alkaline products or solvents without this indication.
-  **ATTENTION:** in order to avoid damaging the machine's water system, acidic or alkaline maintenance detergents can be used, as long as they have pH values between 4 and 10, and do not contain: oxidising agents, chlorine or bromine, formaldehyde, mineral solvents.
-  **ATTENTION:** always use low-foam detergent. To avoid the production of foam, put a minimum quantity of antifoam liquid in the recovery tank before starting to clean. Do not use pure acids.

ASSEMBLY OF BRUSHES OR DRIVE DISCS



To mount the brush or drive disc in the brush head, follow the steps below:

1. Take the machine to the maintenance area.
2. Perform all the operations required to secure the machine. See [“MACHINE SAFETY” on page 16](#).



CAUTION: it is recommended to wear the appropriate PPE (Personal Protective Equipment), suitable for the work to be carried out.

3. Rotate the machine, bringing the control column into contact with the floor.
4. Attach the brushes to the brush-holder flanges in the brush head body.
5. Rotate the machine to its idle position.

CONTROL HANDLEBAR ADJUSTMENT

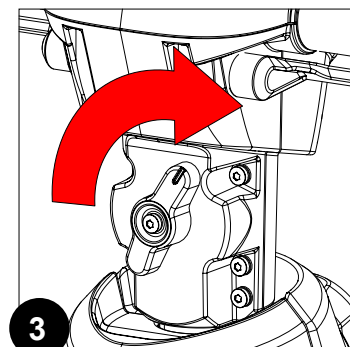
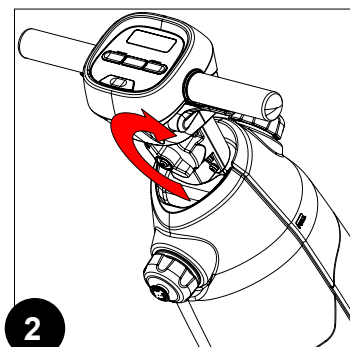
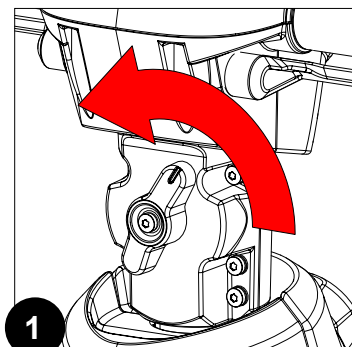
A correctly adjusted handlebar will guarantee comfortable machine use. To adjust the handlebar, proceed as follows:

1. Release the handlebar from its vertical position and rotate the handlebar locking knob anti-clockwise **Fig. 1**).
2. Turn the control column towards yourself until it reaches the optimal position that feels comfortable when using the machine.

 **ATTENTION:** during this operation, do not rest your foot on the machine base.

 **N.B.:** the joint on the machine body ensures the manoeuvrability of the machine. To make a left-hand turn, rotate the handlebar to the left (**Fig. 2**); to go right, turn the handlebar to the right.

i **N.B.:** if you need to block the handlebar in a certain position while using the machine, turn the handlebar locking knob clockwise (**Fig. 3**).



WORK PREPARATION CHECKLIST

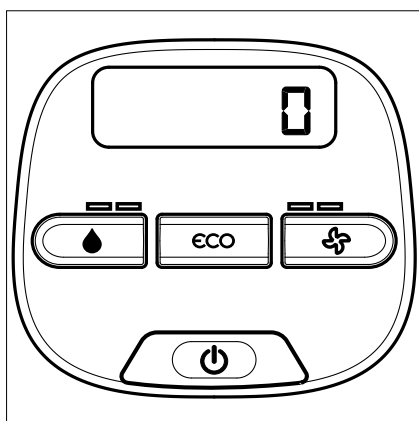
CHECK	SOLUTION
Check for any fluid leaks	Contact your YOR service centre of reference, or the one closest to you.
Check all the wheels on the machine to make sure they are not damaged	Contact your YOR service centre of reference, or the one closest to you.
Check the battery charge level	Check the display on the battery to see the charge level. If necessary, recharge it (referring to the battery charger user manual attached to the machine documentation).
Check if the solution tank is full	If the solution tank is empty, fill it - see "FILLING THE SOLUTION TANK" on page 18
Check if the recovery tank is full	If the recovery tank is full, empty it, see "DRAINING THE RECOVERY TANK" on page 42
Check the condition of the suction motor inlet air filter in the recovery tank	If the filter-float is dirty, clean it. See "CLEANING OF THE SUCTION MOTOR AIR INTAKE FILTER" on page 42
Check the condition of the brushes in the discoid scrubbing brush head	If the brush in the brush head is dirty, clean it. See "CLEANING THE BRUSH - PAD HOLDER" on page 43
	If the brush in the brush head is worn or damaged, replace it. See "REPLACING THE BRUSHES OR PAD HOLDERS" on page 46
Check the condition of the squeegee	If the squeegee is dirty, clean it, see "CLEANING THE SQUEEGEE" on page 40
Check the state of wear of the rubber blades in the squeegee	If the wear of the squeegee rubber blades is unsuitable for the job to be carried out, replace them. See "REPLACING THE SQUEEGEE RUBBER BLADES" on page 45
Check the condition of the squeegee vacuum tube.	If the squeegee vacuum pipe is dirty, clean it, see "CLEANING THE SQUEEGEE VACUUM HOSE" on page 41

WORKING PROGRAMS

The machine can be used with the following working programs:

1. ECO MODE: for light maintenance cleaning tasks, using fewer resources and operating at a low noise level, see [“ECO MODE WORKING PROGRAM” on page 22](#)).
2. MANUAL MODE: the operator freely evaluates and chooses the parameters based on the cleaning requirements that arise during the course of the intervention (see paragraph [“MANUAL MODE WORKING PROGRAM” on page 22](#)).

ECO MODE WORKING PROGRAM



The ECO MODE working program can be used for light maintenance work.

The ECO MODE program is a program which guarantees the best possible performance in terms of consumption and cleaning.

The ECO MODE working program can be enabled:

1. With the machine in scrubbing work mode. See [“SCRUBBER WORKING MODE” on page 23](#). Press the **ECO** button on the control panel to activate the ECO MODE working program.

i **N.B.:** as soon as the **ECO** button is pressed, the LED inside it will light up.

i **N.B.:** to deactivate the ECO MODE working program, simply:

- Press the **ECO** button on the control panel.
- Activate the MANUAL MODE program. See [“MANUAL MODE WORKING PROGRAM” on page 22](#).

i **N.B.:** by selecting the ECO MODE working program, the working parameters (suction motor performance, the detergent solution flow) are automatically changed.

The parameters pre-set on a scale of 1 to 3 are as follows:

Vacuuming	Detergent Solution
1	1

MANUAL MODE WORKING PROGRAM

With the MANUAL MODE working program, it is the operator who evaluates and chooses the parameters based on the cleaning requirements that arise during the course of the work activities.

To switch from ECO MODE to the MANUAL ZONE program, just change one of the performance levels.

There are two performance levels:

- Suction motor performance level - see [“REGULATING THE SUCTION MOTOR PERFORMANCE” on page 29](#).
- Detergent solution dosing level, see [“ADJUSTMENT OF THE DETERGENT SOLUTION FLOW” on page 28](#).

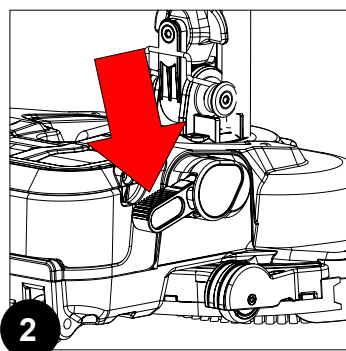
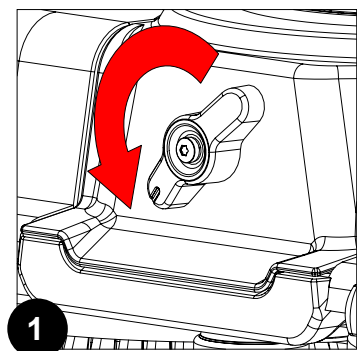
WORKING MODE

TRANSFER WORKING MODE

In the TRANSFER working mode, both the brush head and the squeegee are in their resting positions. This working mode is used to transfer the machine from the work site to the maintenance site.

To use the machine in transfer mode, do the following:

1. Go to the front of the machine. Bring the swivel wheel into contact with the floor, then turn the knob anti-clockwise (**Fig. 1**).
2. Go to the back of the machine. Bring the squeegee to its idle position (raised off the floor), then press the pedal (**Fig. 2**).
3. The machine is now in the transfer working mode.



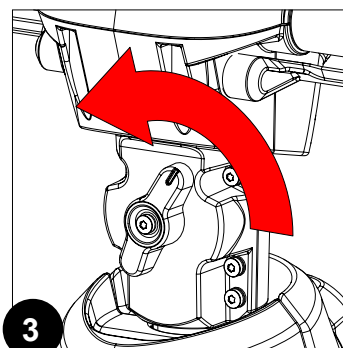
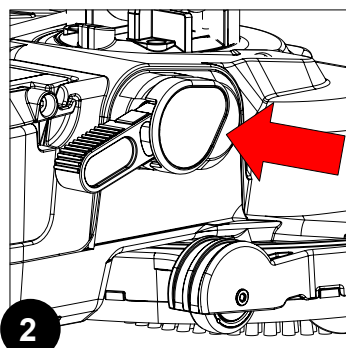
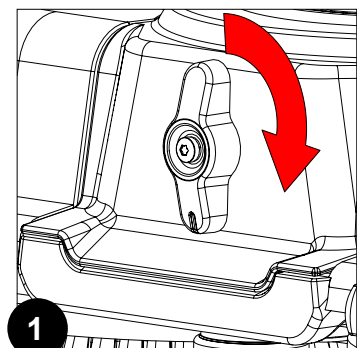
WORK

SCRUBBER WORKING MODE

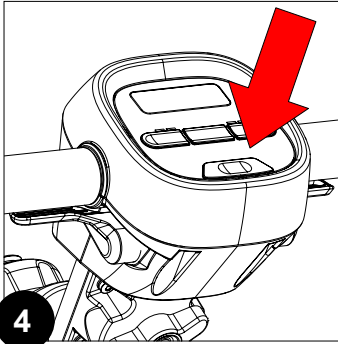
In the SCRUBBING MACHINE working mode, the brush head and squeegee are in their working positions. This working mode is used to scrub and dry the floor at the same time.

To use the machine in scrubbing machine working mode, do the following:

1. Carry out all the checks listed in the [“WORK PREPARATION CHECKLIST” on page 21](#).
2. Go to the front of the machine. Bring the swivel wheel to its idle position (raised off the floor), then turn the knob clockwise (**Fig. 1**).
3. Go to the back of the machine. Bring the squeegee to its working position (in contact with the floor), then press the squeegee release button towards the inside of the machine (**Fig. 2**).
4. Release the control column by turning the locking knob anti-clockwise (**Fig. 3**).



5. Switch on the machine by pressing the main switch for more than two seconds (**Fig. 4**).

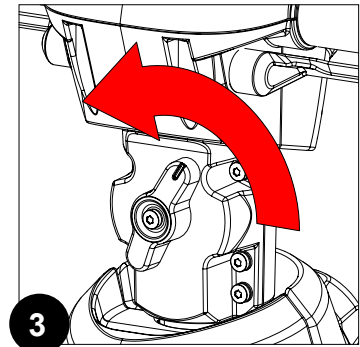
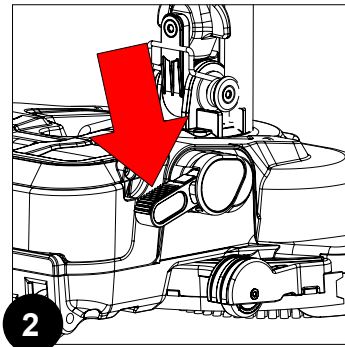
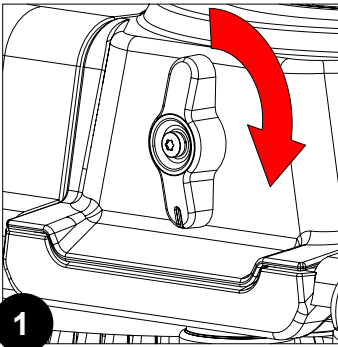


6. The machine is now in scrubber working mode.

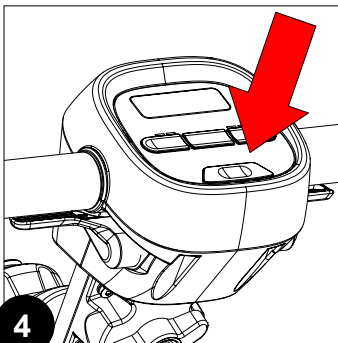
PRE-SCRUB WORKING MODE

In the PRE-SCRUBBING working mode, only the brush head is in its working position, with the squeegee remaining in its resting position. This working mode is used to thoroughly scrub the floor without drying it. To use the machine in pre-scrub working mode, do the following:

1. Carry out all the checks listed in the [“WORK PREPARATION CHECKLIST” on page 21](#).
2. Go to the front of the machine. Bring the swivel wheel to its idle position (raised off the floor), then turn the knob clockwise (**Fig. 1**).
3. Go to the back of the machine. Bring the squeegee to its idle position (raised off the floor), then press the squeegee control pedal (**Fig. 2**).
4. Release the control column by turning the locking knob anti-clockwise (**Fig. 3**).



5. Switch on the machine by pressing the main switch for more than two seconds (**Fig. 4**).



6. The machine is now in pre-scrub mode.

DRYING WORKING MODE

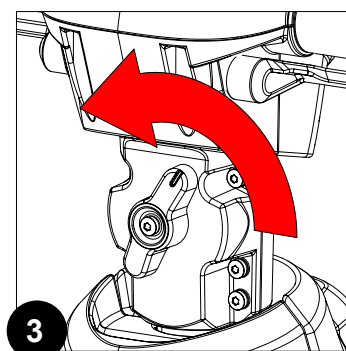
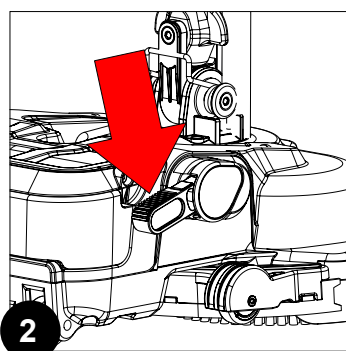
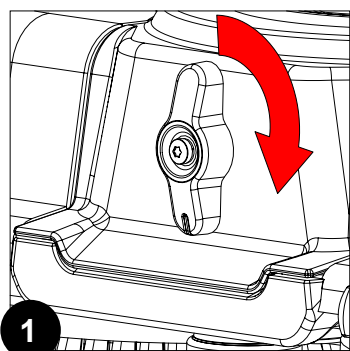
In the DRYING working mode, only the squeegee is in its working position, with the brush head remaining in its resting position. This working mode is used to dry the floor after having performed a pre-scrub.



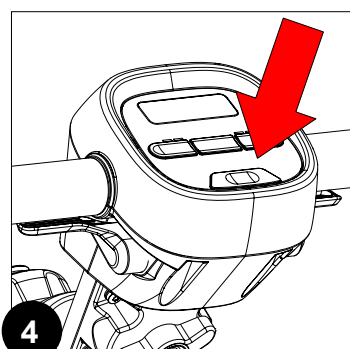
ATTENTION: the drying without scrubbing operation (drying) should only be carried out if the machine was used beforehand to carry out a scrubbing without drying operation (pre-scrub).

To use the machine in drying working mode, do the following:

1. Carry out all the checks listed in the [“WORK PREPARATION CHECKLIST”](#) on page 21.
2. Go to the front of the machine. Bring the swivel wheel to its idle position (raised off the floor), then turn the knob clockwise (**Fig. 1**).
3. Go to the back of the machine. Bring the squeegee to its working position (in contact with the floor), then press the squeegee release button towards the inside of the machine (**Fig. 2**).
4. Release the control column by turning the locking knob anti-clockwise (**Fig. 3**).



5. Switch on the machine by pressing the main switch for more than two seconds (**Fig. 4**).

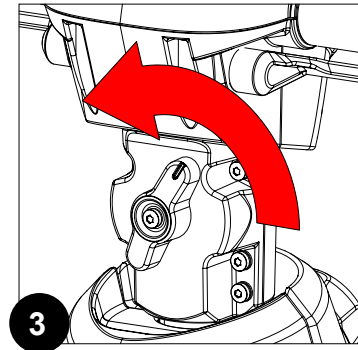
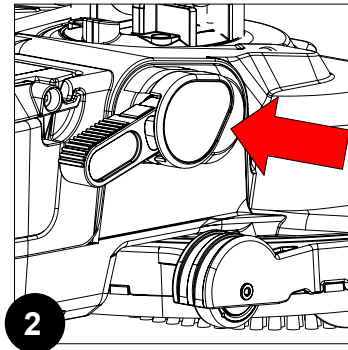
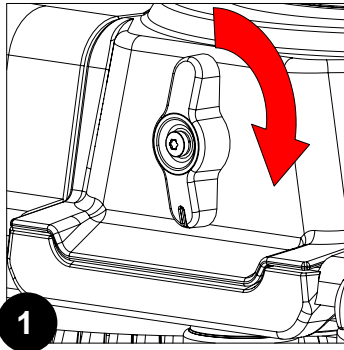


6. The machine is now in drying mode.

STARTING WORK

As an example let's take the scrubbing work mode, therefore scrubbing with drying of the floor, to start work, carry out the following:

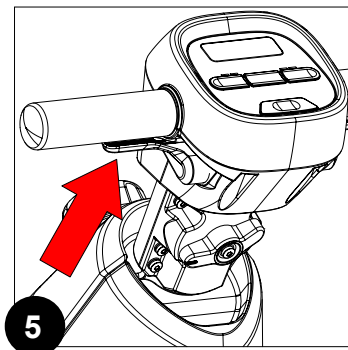
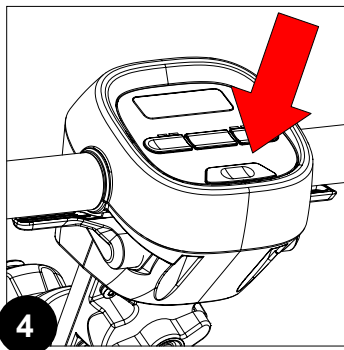
1. Carry out all the checks listed in the ["WORK PREPARATION CHECKLIST" on page 21](#).
2. Go to the front of the machine. Bring the swivel wheel to its idle position (raised off the floor), then turn the knob clockwise (**Fig. 1**).
3. Go to the back of the machine. Bring the squeegee to its working position (in contact with the floor), then press the squeegee release button towards the inside of the machine (**Fig. 2**).
4. Release the control column by turning the locking knob anti-clockwise (**Fig. 3**).



5. Switch on the machine by pressing the main switch for more than two seconds  (**Fig. 4**).

i **N.B.:** if the main switch is kept pressed for more than five seconds , the SeOn error will appear on the control display. Release the main switch and the machine will switch on as normal.

6. When you push the dead man's lever (**Fig. 5**), the machine will begin to move.



7. The machine will now begin to work with full efficiency until the battery runs down or until the detergent solution has finished.

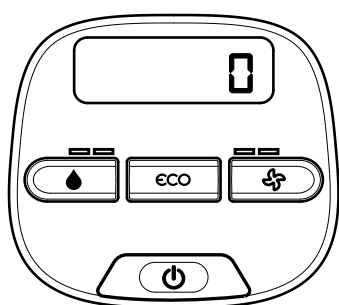
i **N.B.:** during the first few metres, make sure the amount of solution is enough to wet the floor. If not, read the ["INSUFFICIENT DETERGENT SOLUTION ON THE BRUSHES" on page 57](#).

i **N.B.:** pick up any large pieces of waste before performing the cleaning operations; pick up wire, tape, string, large pieces of wood, or any other types of refuse that could wrap around the brushes or become entangled.

i **N.B.:** drive the machine along the most linear path possible. Avoid hitting any obstacles and scratching the sides of the machine. Overlap the working widths by several centimetres.

-  **N.B.:** avoid turning the handlebar too sharply while the machine is moving. The machine reacts quickly to the movements of the handlebar.
-  **N.B.:** adjust the suction motor performance level and the flow of detergent solution on the brushes on the basis of the type of cleaning to be carried out.
-  **N.B.:** Drive the machine slowly on inclines and descents. Where there is a slope, carry out the scrubbing by moving the machine upwards rather than downwards.
-  **ATTENTION:** slow down on ramps and slippery surfaces.
-  **ATTENTION:** do not use the machine in areas where the ambient temperature is higher than 43°C (110°F). Do not use the scrubbing functions in areas where the ambient temperature is less than freezing 0°C (32°F).
-  **ATTENTION:** in transfer mode, the machine can only drive on ramps not exceeding 2%; while in scrubbing machine working mode (with GVW weight), it can work on slopes not exceeding 2%.
-  **N.B.:** The machine is not equipped with an overflow device, because the volume of the recovery tank is greater than the capacity of the solution tank. In extraordinary cases, there is a mechanical device (float) under the recovery tank lid that, when the recovery tank is full, shuts off the air to the vacuum motor intake to protect it; the sound of the suction motor will then be deeper. Empty the recovery tank, see [“DRAINING THE RECOVERY TANK” on page 42.](#)
-  **N.B.:** if the detergent solution in the tank runs out during the work, top it up - see [“FILLING THE SOLUTION TANK” on page 18.](#)
-  **N.B.:** it is good practice to empty the recovery tank every time you fill up the solution tank.
-  **N.B.:** if the dead man's lever is released during the scrubbing with drying operation, the brush motor and the pump present in the water system of the machine will stop working after the set delay time. The suction motor will continue to work for a certain period of time.

HOUR METER



On the machine control panel there is a control display, with an hour meter in the upper part showing the total usage time of the machine.

-  **N.B.:** the digits before the “.” identify the hours, whereas the numbers after the “.” symbol identify the tenths of an hour (a tenth of an hour corresponds to six minutes).

BATTERY CHARGE LEVEL INDICATOR

On the battery body there is a control display. The battery charge percentage indicator has four green LEDs. On the control display you can see the battery charge as a percentage of the maximum capacity.

i N.B.: the graphic symbol consists of four charge levels, each representing approximately 25% of the residual charge.

! ATTENTION: when the function board registers a voltage of 21V for thirty consecutive seconds, it forces the active functions to switch off in order to avoid excessive battery discharge.

! ATTENTION: when the function board registers a voltage of less than 20V for thirty consecutive seconds, it switches the battery to SLEEP MODE. Once the BMS has brought the battery to a low power condition, it cuts off the voltage to the battery poles and switches off the control display.

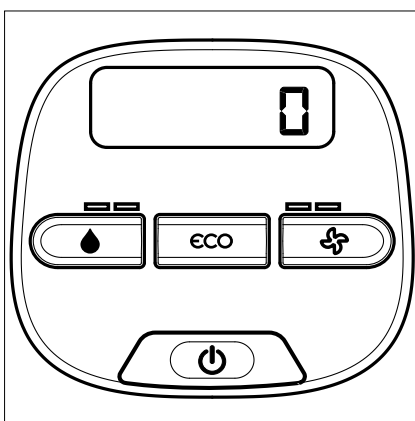
! ATTENTION: when the function board registers a voltage of less than 19V for thirty consecutive seconds, it switches the battery to UNDERVOLTAGE mode. Once the BMS has brought the battery to a low power condition, it cuts off the voltage to the battery poles and switches off the control display. The battery will not be reactivated even if it is connected to the battery charger; contact a YOR service centre to have it reactivated.

OVERFLOW DEVICE

The machine is not equipped with an overflow device, because the volume of the recovery tank is greater than the capacity of the solution tank. In extraordinary cases, there is a mechanical device (float) under the recovery tank lid that, when the recovery tank is full, shuts off the air to the vacuum motor intake to protect it; the sound of the suction motor will then be deeper. Empty the recovery tank, see ["DRAINING THE RECOVERY TANK" on page 42.](#)

ADDITIONAL FUNCTIONS

ADJUSTMENT OF THE DETERGENT SOLUTION FLOW



To adjust the flow of detergent solution during work, proceed as follows:

1. During the first few working metres, check that the amount of solution is sufficient to wet the floor, but not excessive to exit the splash guard.
2. To adjust the detergent solution flow, use the  button on the control panel.

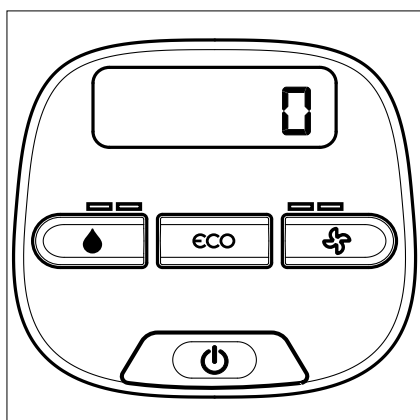
i N.B.: the flow of detergent solution on the brush can be adjusted at three levels, from 0 to 2. The level is shown by the LED above the "" button on the control display.

i N.B.: to change the values relating to the amount of detergent solution in the machine's water system, contact your YOR service centre of reference or the one closest to you.

i N.B.: every time the  button is pressed, the level of detergent solution in the machine's water system is increased in cyclical steps. To bring the flow to zero, keep the button pressed for more than three seconds.

i N.B.: if the flow is set to 0, there is no emission of detergent solution.

REGULATING THE SUCTION MOTOR PERFORMANCE



To adjust the suction motor performance while working, proceed as follows:

1. During the first few working metres, check the squeegee is correctly vacuuming up the solution from the floor.
2. To adjust the detergent solution flow, use the  button on the control panel.

i **N.B.:** the suction motor performance can be adjusted at three levels, from 0 to 2. The level is shown by the LED above the "" button on the control display.

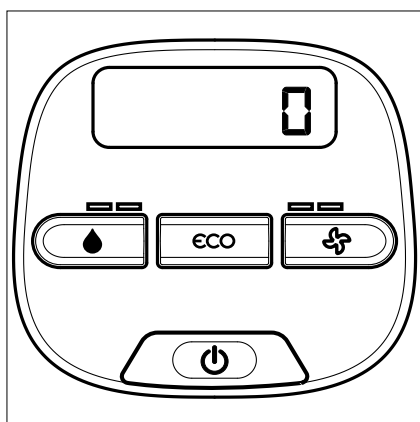
i **N.B.:** to change the values relating to suction motor performance, contact your YOR service centre of reference, or the one closest to you.

i **N.B.:** every time the  button is pressed, the suction motor performance level is increased in cyclical steps. To bring the level to zero, keep the button pressed for more than three seconds.

i **N.B.:** the suction motor will be disabled if its performance is set at 0.

WORK

ALARM SCREEN



If an error occurs, the control display will show the corresponding alarm screen, which will remain visible until the error has been resolved. When an error occurs, do as follows:

1. Stop the machine immediately.
2. Switch the machine off.
3. Wait at least ten seconds, then switch the machine on.
1. If the error persists, contact your YOR service centre of reference, or the one closest to you.

i **N.B.:** the error screen will remain visible until the error has been resolved.

! **ATTENTION:** if the control display shows the alarm MAINT (blinking) while you are working, this means scheduled maintenance is overdue. Contact your YOR service centre of reference or the one closest to you.

i **N.B.:** the scheduled maintenance alarm will be programmed by your YOR service centre of reference or the one closest to you, using the **Service Start** parameter.

i **N.B.:** if scheduled maintenance is overdue, the MAINT alarm will appear on the control display every time the machine is switched on and will remain visible for the time set in the "**Service Time**" parameter. After this, the alarm screen will switch off automatically.

i **N.B.:** the overdue scheduled maintenance alarm can only be reset by a service technician of the YOR service centre.

GENERAL ALARMS

ALARM NUMBER	DESCRIPTION	MEANING	SOLUTION
AL_7: General	Dashboard communication	No communication between the display and the function board	Check the display cable is properly connected. The connector can be found in the lower part of the tank support If the problem persists, contact your YOR service centre of reference or the one closest to you
AL_10: General		The dead man's levers were pressed during the machine switch-on phase	Release the dead man's levers and run the machine switch-on sequence again If the problem persists, contact your YOR service centre of reference or the one closest to you
AL_12: General	Low voltage	The battery voltage is lower than the safety threshold	Contact your YOR service centre of reference, or that which is closest to you
AL_13: General	Overvoltage	The battery voltage is higher than the safety threshold (instantaneous value)	Contact your YOR service centre of reference, or that which is closest to you

FUNCTION ALARMS

ALARM NUMBER	DESCRIPTION	MEANING	SOLUTION
AL_20: Function	Communication between dashboard and LH brush gearmotor	No communication between the LH brush switch and the function board	Switch off the machine and wait five minutes, then run the switch-on sequence If the problem persists, contact your YOR service centre of reference or the one closest to you
AL_21: Function	Firmware version not updated	The version of the LH brush switch firmware is not updated to the function board firmware	Switch off the machine and contact your YOR service centre of reference, or the one closest to you
AL_22: Function	LH brush undervoltage	The function board has detected a voltage level lower than the defined threshold level in the electrical connection to the LH brush gearmotor	Switch off the machine and contact your YOR service centre of reference, or the one closest to you
AL_23: Function	LH brush overvoltage	The function board has detected a voltage level higher than the defined threshold level in the electrical connection to the LH brush gearmotor	Switch off the machine and contact your YOR service centre of reference, or the one closest to you

ALARM NUMBER	DESCRIPTION	MEANING	SOLUTION
AL_24: Function	Overtemperature on LH brush outlet	The function board has detected a temperature higher than the defined threshold value in the electrical connection to the LH brush gearmotor	Switch off the machine and wait for it to cool down, then run the switch-on sequence If the problem persists, contact your YOR service centre of reference or the one closest to you
AL_25: Function	Overcurrent on LH brush outlet	The function board has detected a current intake higher than the defined threshold level in the electrical connection to the LH brush gearmotor	Reduce the pressure exerted on the brush head Make sure the type of brush used is suitable for the work to be carried out If the problem persists, contact your YOR service centre of reference or the one closest to you
AL_26: Function	Overtemperature on LH brush gearmotor	A temperature higher than the defined threshold value has been detected in the LH brush gearmotor	Switch off the machine and wait for it to cool down, then run the switch-on sequence If the problem persists, contact your YOR service centre of reference or the one closest to you
AL_27: Function	LH brush gearmotor not connected	The function board has detected a fault in the electrical connection with the LH brush gearmotor	Contact your YOR service centre of reference, or that which is closest to you
AL_30: Function	Communication between dashboard and RH brush gearmotor	No communication between the RH brush switch and the function board	Switch off the machine and wait five minutes, then run the switch-on sequence If the problem persists, contact your YOR service centre of reference or the one closest to you
AL_31: Function	Firmware version not updated	The version of the RH brush switch firmware is not updated to the function board firmware	Switch off the machine and contact your YOR service centre of reference, or the one closest to you
AL_32: Function	RH brush undervoltage	The function board has detected a voltage level lower than the defined threshold level in the electrical connection to the RH brush gearmotor	Switch off the machine and contact your YOR service centre of reference, or the one closest to you
AL_33: Function	RH brush overvoltage	The function board has detected a voltage level higher than the defined threshold level in the electrical connection to the RH brush gearmotor	Switch off the machine and contact your YOR service centre of reference, or the one closest to you
AL_34: Function	Overtemperature on RH brush outlet	The function board has detected a temperature higher than the defined threshold value in the electrical connection to the RH brush gearmotor	Switch off the machine and wait for it to cool down, then run the switch-on sequence If the problem persists, contact your YOR service centre of reference or the one closest to you

ALARM NUMBER	DESCRIPTION	MEANING	SOLUTION
AL_35: Function	Overcurrent on RH brush outlet	The function board has detected a current intake higher than the defined threshold level in the electrical connection to the RH brush gearmotor	Reduce the pressure exerted on the brush head Make sure the type of brush used is suitable for the work to be carried out If the problem persists, contact your YOR service centre of reference or the one closest to you
AL_36: Function	Overtemperature on RH brush gearmotor	A temperature higher than the defined threshold value has been detected in the RH brush gearmotor	Switch off the machine and wait for it to cool down, then run the switch-on sequence If the problem persists, contact your YOR service centre of reference or the one closest to you
AL_37: Function	RH brush gearmotor not connected	The function board has detected a fault in the electrical connection with the RH brush gearmotor	Contact your YOR service centre of reference, or that which is closest to you
AL_40: Function	Communication between dashboard and suction motor	No communication between the suction motor switch and the function board	Switch off the machine and wait five minutes, then run the switch-on sequence If the problem persists, contact your YOR service centre of reference or the one closest to you
AL_41: Function	Firmware version not updated	The version of the suction motor switch firmware is not updated to the function board firmware	Switch off the machine and contact your YOR service centre of reference, or the one closest to you
AL_42: Function	Suction motor undervoltage	The function board has detected a voltage level lower than the defined threshold level in the electrical connection to the suction motor	Switch off the machine and contact your YOR service centre of reference, or the one closest to you
AL_43: Function	Suction motor overvoltage	The function board has detected a voltage level higher than the defined threshold level in the electrical connection to the suction motor	Switch off the machine and contact your YOR service centre of reference, or the one closest to you
AL_44: Function	Overtemperature on suction motor outlet	The function board has detected a temperature higher than the defined threshold value in the electrical connection to the suction motor	Switch off the machine and wait for it to cool down, then run the switch-on sequence If the problem persists, contact your YOR service centre of reference or the one closest to you
AL_45: Function	Overcurrent on suction motor outlet	The function board has detected a current intake higher than the defined threshold level in the electrical connection to the suction motor	Reduce the pressure exerted on the brush head Make sure the type of brush used is suitable for the work to be carried out If the problem persists, contact your YOR service centre of reference or the one closest to you

ALARM NUMBER	DESCRIPTION	MEANING	SOLUTION
AL_46: Function	Suction motor overtemperature	A temperature higher than the defined threshold value has been detected in the suction motor	Switch off the machine and wait for it to cool down, then run the switch-on sequence If the problem persists, contact your YOR service centre of reference or the one closest to you
AL_47: Function	LH brush gearmotor not connected	The function board has detected a fault in the electrical connection with the suction motor	Contact your YOR service centre of reference, or that which is closest to you

AT THE END OF THE WORK

At the end of the work, and before carrying out any type of maintenance, perform the following operations:

1. Set the machine to TRANSFER mode, see [“TRANSFER WORKING MODE” on page 23](#).
2. Take the appliance to the dedicated dirty water drainage area.



WARNING: the place designated for this operation must comply with current regulations concerning safety at work and current environmental protection regulations.



CAUTION: it is recommended to wear the appropriate PPE (Personal Protective Equipment), suitable for the work to be carried out.

3. Make sure the machine is in a safe condition, see [“MACHINE SAFETY” on page 16](#)).
4. Carry out all the daily maintenance procedures on the machine. See [“MAINTENANCE PLAN” on page 35](#).
5. Once the daily maintenance operations are complete, take the machine to the designated storage location.



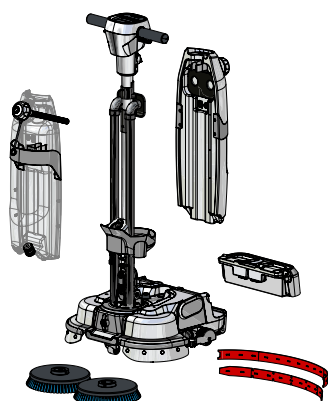
ATTENTION: park the machine in an enclosed place, on a flat surface; near the machine there must be no objects that could either damage it, or be damaged through contact with it.



ATTENTION: before parking the machine, read the MACHINE SAFETY section in the SECURING THE MACHINE document (supplied with the machine).

6. Secure the machine, see [“MACHINE SAFETY” on page 16](#).

MAINTENANCE PLAN



The importance of machine maintenance should not be underestimated. By ensuring the machine is inspected regularly, we can replace all parts that become worn in a timely manner. In addition, we can also recognise faults quickly, thus increasing the useful life of our machine.

First, it is important to understand the difference between the various types of maintenance:

- routine maintenance is an activity designed to keep the machine in good working order.
- extraordinary maintenance regards work carried out to implement substantial updates on the machine.

i **N.B.:** the primary purpose of routine maintenance is to maintain the performance of the machine's various functions, checking for any worn or faulty elements. A fault that is not fixed or an excessively worn part could cause damage to the machine or injure persons in the vicinity.

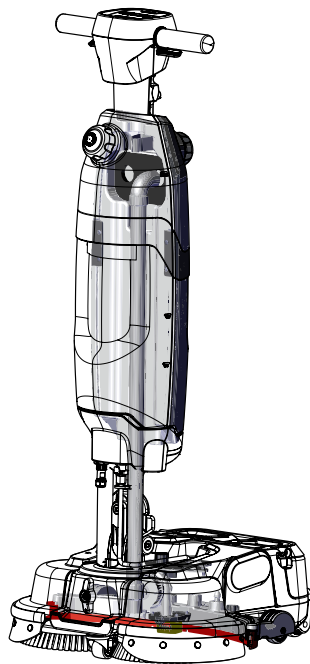
i **N.B.:** the main purpose of extraordinary maintenance is to replace any worn or defective elements.

i **N.B.:** in addition, maintenance enables the operator to use the machine in a safer manner, in the knowledge that the risk of unforeseen events has been reduced as far as possible.

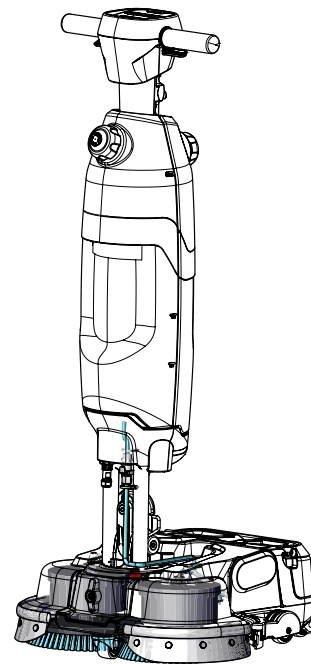
i **N.B.:** the use and maintenance manual contains all the procedures to be carried out during routine maintenance of the machine. By following these instructions, even individuals with no particular expertise in this area can check the machine and replace any parts necessary, taking a DIY approach. However, it is essential to remember the importance of entrusting the work to genuine professionals. An experienced specialist may notice details that could escape the notice of a less observant and expert eye.

i **N.B.:** a dilemma may arise during maintenance: which spare parts are best? YOR supplies original spare parts identical to the parts that need replacing. They are the best choice because they are resistant and long-lasting, and help to maintain machine performance over time.

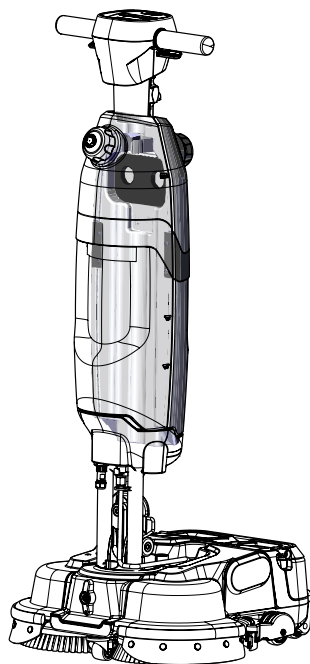
i **N.B.:** these spare parts are used in YOR service centres. In an unauthorised workshop however, we recommend you explicitly ask the technicians to use only these products. Using official spare parts extends the longevity of your machine.



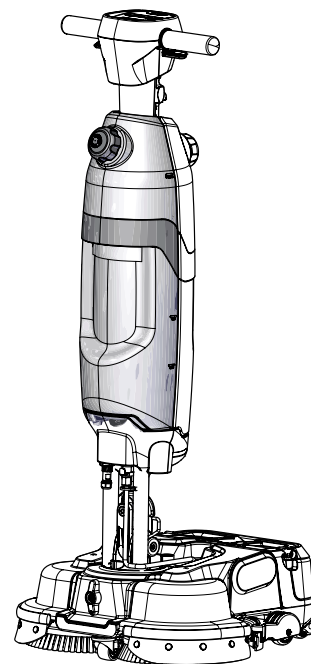
1 - SUCTION SYSTEM



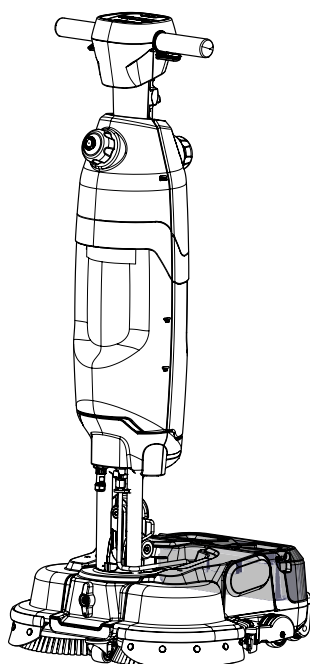
2 - SCRUBBING SYSTEM



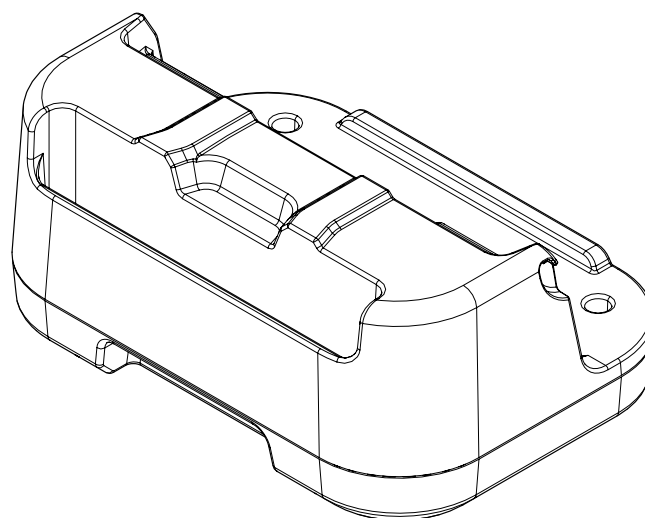
3 - RECOVERY TANK



4 - SOLUTION TANK



5 - POWER SUPPLY SYSTEM (BATTERY)



6 - BATTERY CHARGING SYSTEM

ROUTINE MAINTENANCE INTERVAL TABLE (NORMAL WORKER)

- i** **N.B.:** "general worker" means someone able to handle tasks for which physical effort is required to carry out specific but simple job-related procedures, or responsible for tasks or services calling for aptitude or for knowledge that can be acquired in a few days.
- i** **N.B.:** "specialised operator" means someone able to handle specific tasks requiring special practical skills obtained via technical-practical preparation provided by YOR service centre technicians.

DAILY MAINTENANCE

Reference	Description	Calculation	Paragraph
1	Clean squeegee rubber blades	Clean the inner and outer surface of the rubber blades present in the squeegee of the machine	"CLEANING THE SQUEEGEE" on page 40
	Clean squeegee suction chamber	Clean the inner surface of the suction chamber present in the squeegee body of the machine	
	Clean the squeegee nozzle	Clean the inner surface of the suction nozzle present in the squeegee body of the machine	
	Clean the squeegee suction hose	Clean the inside of the suction hose that connects the squeegee to the recovery tank	"CLEANING THE SQUEEGEE VACUUM HOSE" on page 41
	Clean the recovery tank filter	Remove any impurities or encrustation from the recovery tank filter inside the recovery tank	"CLEANING OF THE SUCTION MOTOR AIR INTAKE FILTER" on page 42
	Clean the suction motor inlet air filter	Remove any impurities or encrustation from the inlet air filter under the machine frame	"CLEANING OF THE SUCTION MOTOR AIR INTAKE FILTER" on page 42

Reference	Description	Calculation	Paragraph
2	Cleaning the brush	Remove impurities and waste from the bristles, clean the bristles under a jet of water	“CLEANING THE BRUSH - PAD HOLDER” on page 43
	Cleaning the splash guard rubber blade	Clean the inner and outer surface of the splash guard rubber blade	“CLEANING THE BRUSH HEAD SPLASH GUARD” on page 44
3	Empty the recovery tank	Using the drain hose, empty the recovery tank	“DRAINING THE RECOVERY TANK” on page 42

MAINTENANCE AFTER 50 WORKING HOURS

Reference	Description	Calculation	Paragraph
1	Clean the guard of the suction motor inlet air filter	Clean the guard of the suction motor inlet air filter under the machine frame	“CLEANING OF THE SUCTION MOTOR AIR INTAKE FILTER” on page 42
3	Clean the recovery tank	Empty and clean the inside of the recovery tank	“DRAINING THE RECOVERY TANK” on page 42
4	Clean the solution tank	Empty and clean the inside of the solution tank	“EMPTYING THE SOLUTION TANK” on page 44

ROUTINE MAINTENANCE INTERVAL TABLE (SPECIALIST WORKER)

MAINTENANCE AFTER 50 WORKING HOURS

Ref.	Description	Notes
1	Check the state of wear of the rubber blades in the squeegee	 ATTENTION: if the wear condition of the rubber blades does not allow for proper drying, contact your YOR service centre of reference or the one closest to you
	Check the integrity of the suction nozzle present in the squeegee	 ATTENTION: if the suction nozzle is damaged and does not ensure proper suction of the detergent solution, contact your YOR service centre of reference or the one closest to you
	Check the integrity of the squeegee suction hose	 ATTENTION: if the squeegee suction hose is damaged and does not ensure proper suction of the detergent solution, contact your YOR service centre of reference or the one closest to you
	Check the condition of the recovery tank filter	 ATTENTION: if the recovery tank filter is damaged and does not ensure the efficient filtering of the solution, contact your YOR service centre of reference or the one closest to you
	Check the integrity of the suction motor inlet air filter	 ATTENTION: if the inlet air filter of the suction motor is damaged and does not ensure the blockage of the solution, contact your YOR service centre of reference or the one closest to you
	Check the integrity of the guard at the suction motor inlet air filter	 ATTENTION: if the guard on the inlet air filter of the suction motor inlet is damaged and does not ensure the blockage of the solution, contact your YOR service centre of reference or the one closest to you
	Check the integrity of the squeegee suction hose	 ATTENTION: if the squeegee suction hose is damaged, contact your YOR service centre of reference or the one closest to you
	Check the condition of the suction motor inlet air hose	 ATTENTION: if the squeegee suction hose is damaged, contact your YOR service centre of reference or the one closest to you
2	Check the state of wear of the bristles in the brush	 ATTENTION: if the height of the bristles does not allow the floor to be scrubbed properly, contact your YOR service centre of reference or the one closest to you
	Check the state of wear of the splashguard rubber blade	 ATTENTION: if the condition of the splashguard rubber blade does not allow the detergent solution to be contained and conveyed to the centre of the machine, contact your YOR service centre of reference or the one closest to you

Ref.	Description	Notes
5	Battery-powered supply system	 ATTENTION: for battery maintenance, refer to the use and maintenance manual provided by the battery manufacturer and supplied with the machine documentation, or contact your YOR service centre of reference or the one closest to you

MAINTENANCE AFTER 100 WORKING HOURS

Ref.	Description	Notes
6	Battery charger system	 ATTENTION: for battery charger maintenance, refer to the use and maintenance manual provided by the battery charger manufacturer and supplied with the machine documentation, or contact your YOR service centre of reference or the one closest to you

MAINTENANCE AFTER 500 WORKING HOURS

Ref.	Description	Notes
1	Check the integrity of the air filter at the outlet of the suction motor (Hepa version)	 ATTENTION: if the suction motor inlet air filter is damaged and no longer provides proper air filtration, contact your YOR service centre of reference or the one closest to you to have it replaced

ROUTINE MAINTENANCE

Before carrying out any routine maintenance operations, proceed as follows:

1. Take the machine to the maintenance area.

 **WARNING:** the place designated for this operation must comply with current regulations concerning safety at work and current environmental protection regulations.

2. Make sure the machine is in a safe condition, see [“MACHINE SAFETY” on page 16](#)).

 **CAUTION:** it is recommended to wear the appropriate PPE (Personal Protective Equipment), suitable for the work to be carried out.

 **WARNING: DO NOT WASH THE MACHINE WITH DIRECT OR PRESSURE JETS OF WATER OR WITH CORROSIVE SUBSTANCES OR WET THE MACHINE NEAR THE ELECTRICAL COMPONENTS.**

CLEANING THE SQUEEGEE

The careful cleaning of the whole vacuum unit ensures better drying and cleaning of the floor as well as a longer vacuum motor life.

To clean the squeegee, proceed as follows:

1. Take the appliance to the dedicated dirty water drainage area.



N.B.: discharges into the subsoil resulting from any work activities must only be carried out in designated areas; they must also be performed in compliance with the environmental regulations in force in the machine's country of use.

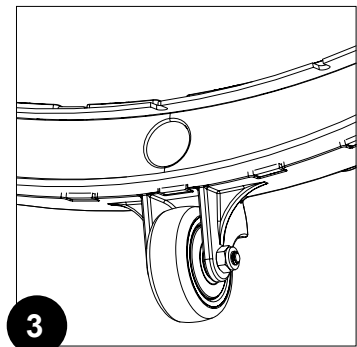
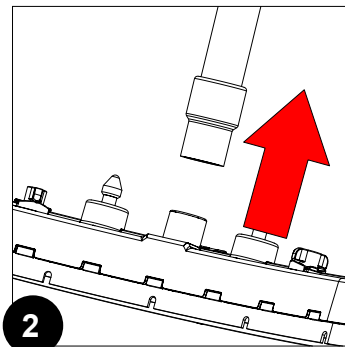
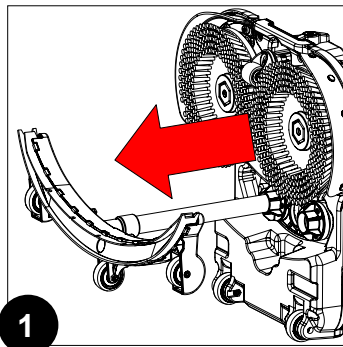
2. Rotate the machine, bringing the control column into contact with the floor.
3. Remove the squeegee from its support (**Fig. 1**).
4. Remove the sleeve in the squeegee vacuum hose from the nozzle in the squeegee support (**Fig. 2**).
5. Clean the suction chamber thoroughly with a damp cloth (**Fig. 3**).



N.B.: the vacuum chamber is to be understood as the portion of the squeegee unit located between the front squeegee rubber blade and the rear squeegee rubber blade.



N.B.: if the dirt persists, use a brush with medium hardness bristles.



6. Clean the rear rubber thoroughly with a damp cloth (**Fig. 4**).
7. Clean the front rubber thoroughly with a damp cloth (**Fig. 5**).



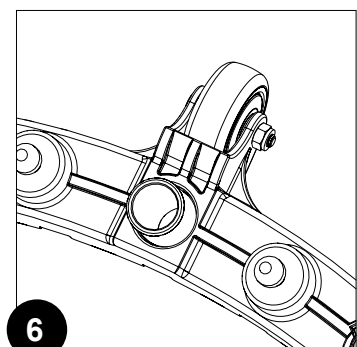
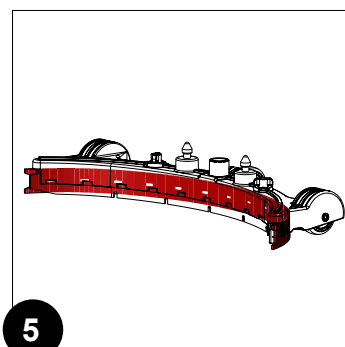
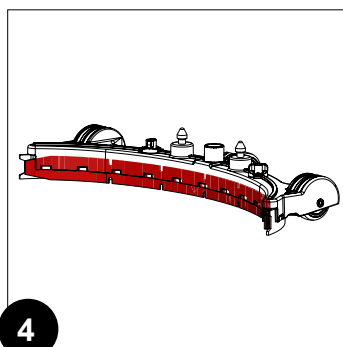
N.B.: check that the two rubber blades are in good condition; if necessary, replace the squeegee rubber blades, refer to.

8. Use a jet of water and then a damp cloth to thoroughly clean the vacuum chamber of the vacuum nozzle (**Fig. 6**).



N.B.: if the dirt persists, use a brush with medium hardness bristles.

9. Proceed in the opposite order to reassemble all the parts.



CLEANING THE SQUEEGEE VACUUM HOSE

The thorough cleaning of the squeegee vacuum hose guarantees better cleaning and drying of the floor, as well as a longer life for the suction motor.

To clean the squeegee vacuum hose, do the following:

1. Take the appliance to the dedicated dirty water drainage area.

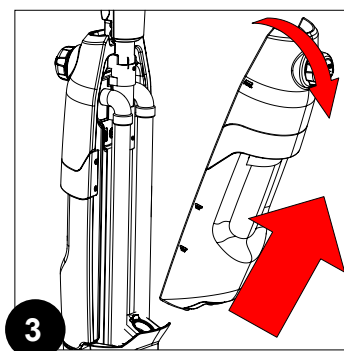
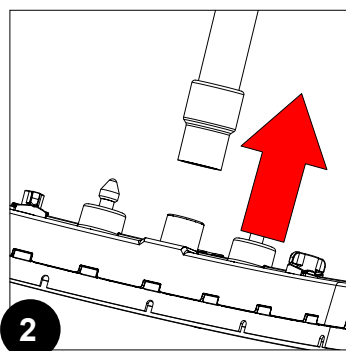
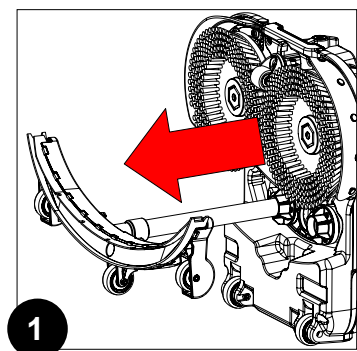


N.B.: discharges into the subsoil resulting from any work activities must only be carried out in designated areas; they must also be performed in compliance with the environmental regulations in force in the machine's country of use.

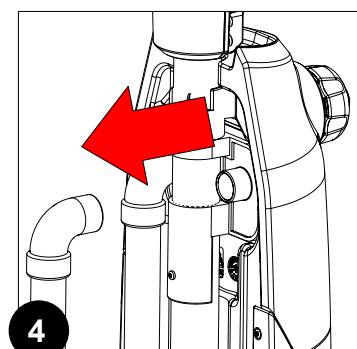
2. Rotate the machine, bringing the control column into contact with the floor.
3. Remove the squeegee from its support (**Fig. 1**).
4. Remove the sleeve in the squeegee vacuum hose from the nozzle in the squeegee support (**Fig. 2**).
5. Attach the squeegee to the squeegee support.

⚠ ATTENTION: make sure the centring pins in the squeegee body are correctly positioned in the holes in the squeegee support.

6. Rotate the machine to its idle position.
7. Remove the solution tank from the machine (**Fig. 3**).



8. Take the squeegee vacuum hose out of the nozzle in the hose support (**Fig. 4**).
9. Remove the suction tube from the machine and clean its inside.
10. Repeat the operations in reverse order to reassemble all the parts.



DRAINING THE RECOVERY TANK

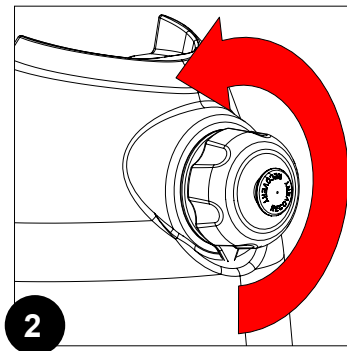
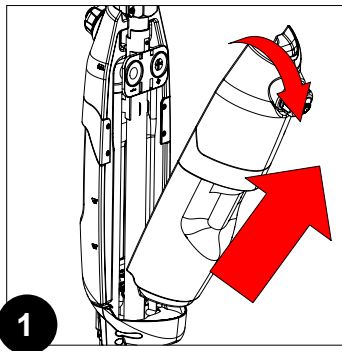
Thoroughly cleaning the recovery tank will prevent unpleasant odours from forming inside. To clean the tank, do the following:

1. Take the appliance to the dedicated dirty water drainage area.



N.B.: discharges into the subsoil resulting from any work activities must only be carried out in designated areas; they must also be performed in compliance with the environmental regulations in force in the machine's country of use.

2. Remove the recovery tank from the machine (**Fig. 1**).
3. Remove the cap from the recovery tank (**Fig. 2**).
4. Drain the recovery tank completely, then clean the inside thoroughly.
5. Proceed in the opposite order to reassemble all the parts.



CLEANING OF THE SUCTION MOTOR AIR INTAKE FILTER

Thorough cleaning of the suction motor inlet air filter in the recovery tank ensures better drying and cleaning of the floor, along with a longer working life for the suction motor. To clean the inlet air filter, proceed as follows:

1. Take the appliance to the dedicated dirty water drainage area.

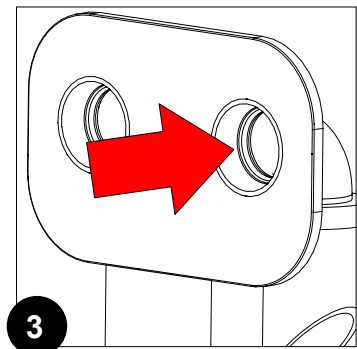
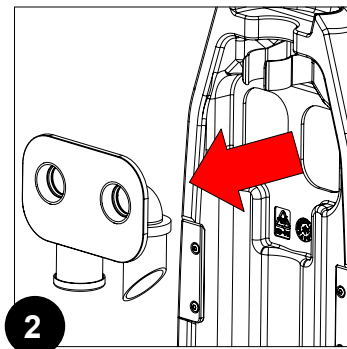
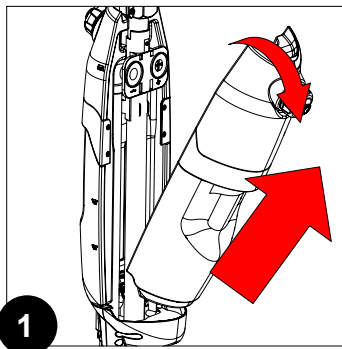


N.B.: discharges into the subsoil resulting from any work activities must only be carried out in designated areas; they must also be performed in compliance with the environmental regulations in force in the machine's country of use.

2. Remove the solution recovery tank from the machine (**Fig. 1**).
3. Remove the suction motor inlet air filter from the recovery tank (**Fig. 2**).
4. Clean the inside of the dirty detergent solution nozzle (**Fig. 3**).

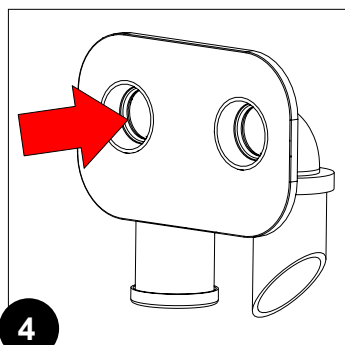


N.B.: in the case of stubborn dirt, use a brush with medium bristles.



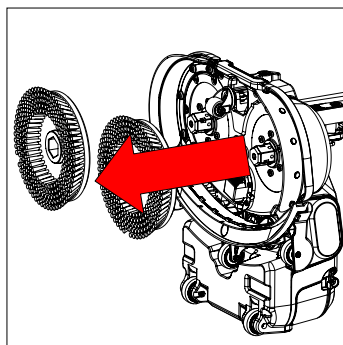
5. Clean the outside and inside of the suction motor inlet air filter (**Fig. 4**).

i **N.B.:** in the case of stubborn dirt, use a brush with medium bristles.



6. Repeat the operations in reverse order to reassemble all the parts.

CLEANING THE BRUSH - PAD HOLDER



The thorough cleaning of the brush or the drive disc on the brush head will ensure better floor cleaning, thus decreasing costs while at the same time improving environmental sustainability and performance.

1. Take the appliance to the dedicated dirty water drainage area.



N.B.: discharges into the subsoil resulting from any work activities must only be carried out in designated areas; they must also be performed in compliance with the environmental regulations in force in the machine's country of use.

2. Rotate the machine, bringing the control column into contact with the floor.

3. Remove the brush from the brush-holder plate (**Fig. 1**).

4. After removing the brush or dragging discs, clean and remove any impurities present in the bristles.

i **N.B.:** check the wear of the bristles and replace the brushes if they are excessively worn (the bristle length must not be less than 10 mm; this measurement is indicated on the brush by the yellow band). See [“REPLACING THE BRUSHES OR PAD HOLDERS” on page 46](#).

5. After cleaning, refit the brush; see [“ASSEMBLY OF BRUSHES OR DRIVE DISCS” on page 19](#)

CLEANING THE BRUSH HEAD SPLASH GUARD

The thorough cleaning of the brush head splash guard allows the cleaning solution to be better directed towards the centre of the machine so that it can be collected by the squeegee, thereby increasing cost savings and increasing environmental sustainability.

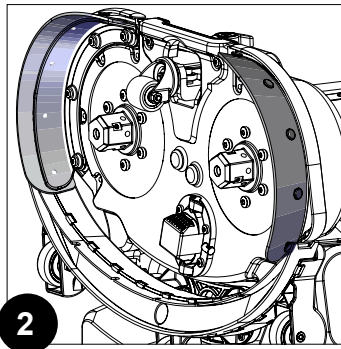
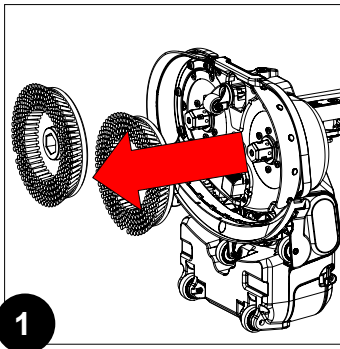
To clean the brush head squeegee, proceed as follows:

1. Take the appliance to the dedicated dirty water drainage area.



N.B.: discharges into the subsoil resulting from any work activities must only be carried out in designated areas; they must also be performed in compliance with the environmental regulations in force in the machine's country of use.

2. Rotate the machine, bringing the control column into contact with the floor.
3. Remove the brush from the brush-holder plate (**Fig. 1**).
4. Clean the splash guard thoroughly with a damp cloth (**Fig. 2**).
5. To refit, repeat the operations for removal but in the reverse order.



EMPTYING THE SOLUTION TANK

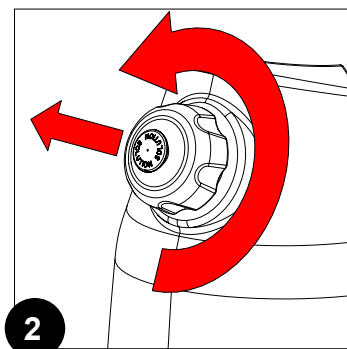
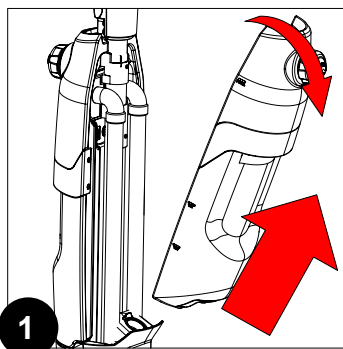
Thoroughly cleaning the solution tank will prevent unpleasant odours from forming inside. To clean the tank, do the following:

1. Take the appliance to the dedicated dirty water drainage area.



N.B.: discharges into the subsoil resulting from any work activities must only be carried out in designated areas; they must also be performed in compliance with the environmental regulations in force in the machine's country of use.

2. Remove the solution tank from the machine (**Fig. 1**).
3. Remove the cap from the solution tank (**Fig. 2**).
4. Drain the solution tank completely, then clean the inside thoroughly with a jet of water.
5. Proceed in the opposite order to reassemble all the parts.



EXTRAORDINARY MAINTENANCE WORK

Before carrying out any extraordinary maintenance operations, proceed as follows:

1. Take the machine to the maintenance area.

WARNING: the place designated for this operation must comply with current regulations concerning safety at work and current environmental protection regulations.

2. Make sure the machine is in a safe condition, see [“MACHINE SAFETY” on page 16](#)).

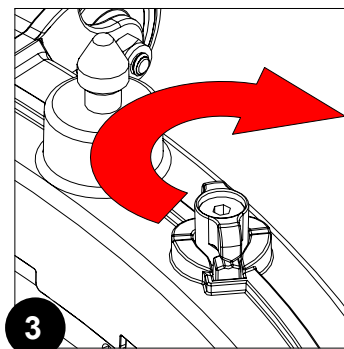
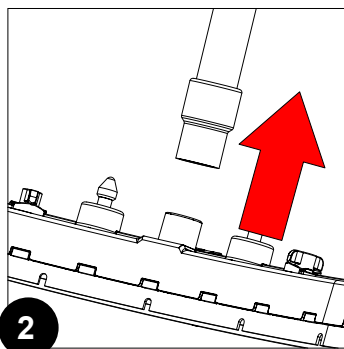
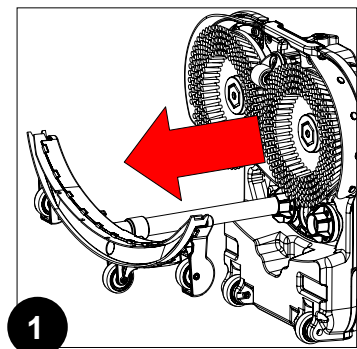
CAUTION: it is recommended to wear the appropriate PPE (Personal Protective Equipment), suitable for the work to be carried out.

REPLACING THE SQUEEGEE RUBBER BLADES

Intact squeegee rubber blades will ensure better floor cleaning, thus decreasing costs while at the same time improving environmental sustainability and performance.

To replace the squeegee rubber blades, do the following:

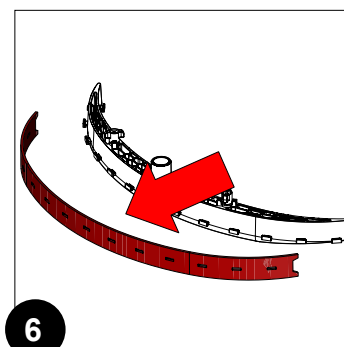
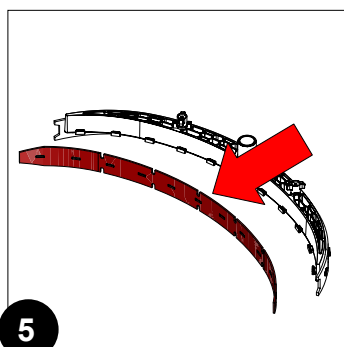
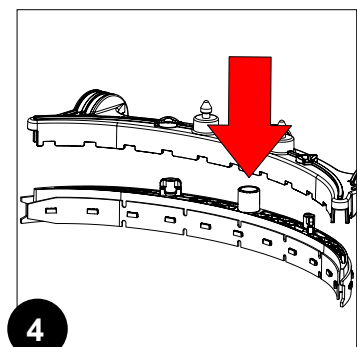
1. Rotate the machine, bringing the control column into contact with the floor.
2. Remove the squeegee from its support (**Fig. 1**).
3. Remove the sleeve in the squeegee vacuum hose from the nozzle in the squeegee support (**Fig. 2**).
4. Turn the squeegee lower body fixing knobs to the maintenance position (horizontal) (**Fig. 3**).



5. Take the squeegee lower body out of the squeegee upper body (**Fig. 4**).

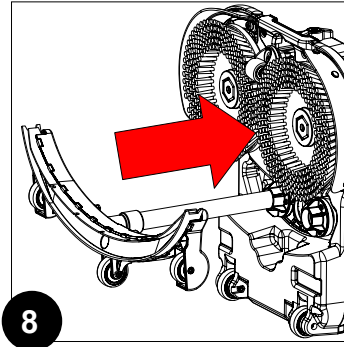
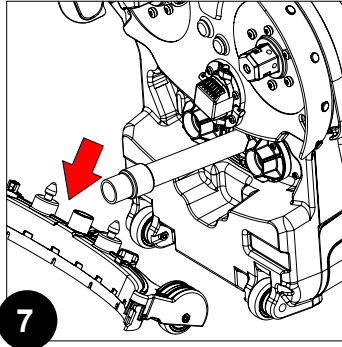
i N.B.: it is advised to replace both squeegee rubber blades in order to ensure good results when drying the floor.

6. Remove the rear rubber blade from the squeegee lower body (**Fig. 5**).
7. Remove the front rubber blade from the squeegee lower body (**Fig. 6**).

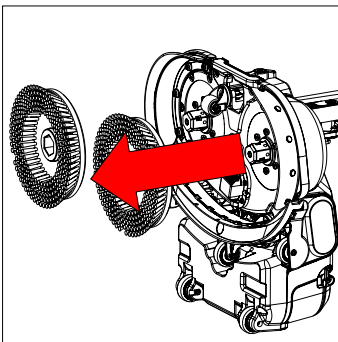


8. Replace both squeegee rubber blades.
9. Insert the squeegee lower body in the squeegee upper body (**Fig. 7**).
10. Connect the sleeve in the vacuum hose to the nozzle in the squeegee body (**Fig. 8**).
11. Attach the squeegee to the squeegee support.

⚠ ATTENTION: make sure the centring pins in the squeegee body are correctly positioned in the holes in the squeegee support.



REPLACING THE BRUSHES OR PAD HOLDERS

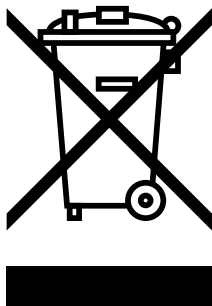


Ensuring the brush or the drive disc on the brush head is intact will ensure better floor cleaning, thus decreasing costs while at the same time improving environmental sustainability and performance.

To replace the brushes in the brush head, proceed as follows:

1. Rotate the machine, bringing the control column into contact with the floor.
2. Remove the brushes from the brush-holder plate.
3. After removing the brushes, replace them with the new ones - see [“ASSEMBLY OF BRUSHES OR DRIVE DISCS” on page 19](#).

DISPOSAL



YOR is committed to creating its products by respecting the environment, investing in the development of sustainable solutions and technologies, seeking materials that can easily be recycled, and ensuring that the entire production process has a low environmental impact.

When the machine reaches the end of its working life, dispose of it in accordance with the legislation in force in the country where it is used.

⚠ ATTENTION: before proceeding with disposal, it is essential to contact your nearest authorised collection centres directly, in accordance with the legislation in force in the country where the machine is used.

CHOOSING AND USING BRUSHES

DISCOIDAL BRUSHES AND DRIVE DISCS

All the brushes are comprised of a body to which the various tufts of bristles are fixed. The brush bodies are generally made of plastic, as this is a material that ensures higher levels of reliability, in that it does not become damaged when wet.

i N.B.: when the bristle starts to be consumed, it comes closer to the brush and increases its rigidity, losing its flexibility characteristics that allows it to collect and remove dirt. For this reason it is important to replace them at the right moment.

The type of brushes for scrubbing machines can be chosen according to the material the bristles are made of; the most common bristle materials are as follows:

POLYPROPYLENE (PPL)	NYLON (PA)	TYNEX
Synthetic polymer	Synthetic polymer	Very durable abrasive material
Bristles with varying level of abrasion and thickness (0.3÷1.5 mm)	Can be used as an alternative to PPL	Can be used for deep cleaning on industrial surfaces
Can be used on any type of flooring		
Can be used for routine or deep cleaning		

UNION MIX	STEEL
Compound based on natural products	Suitable for industrial floors with stubborn dirt
Can be used for polishing and scrubbing activities	Alternative to Tynex
Resistant to very high temperatures	
Subject to rapid wear, shorter life than the PPL version	
Must be used with non-aggressive detergents	
Suitable for flooring types such as: marble; granite; porphyry cobbles; terracotta	
Not suitable for cleaning heavy soiling	

i N.B.: the choice of the right brushes is crucial for good floor cleaning results. It is important to use certain brushes not only on the basis of the required result but also evaluating the type of floor. Contact your YOR dealer of reference, or the one closest to you, to choose together the type of brush most suitable for the work you want to carry out.

i N.B.: when the bristle starts to be consumed, it comes closer to the brush and increases its rigidity, losing its flexibility characteristics that allows it to collect and remove dirt. For this reason it is important to replace them at the right moment.

Legend: $\varnothing_E$ = external bristle diameter; $\varnothing_S$ = diameter of the bristles; $\varnothing_F$ = external tank diameter (brush body)

CODE	QTY	$\varnothing$ EXTERNAL	BRISTLE MATERIAL	$\varnothing$ BRISTLES	NOTES
8400001	2	230	PPL	0,3 mm	Discoidal brush $\varnothing_F=206\text{mm}$ $\varnothing_E=230\text{mm}$ bristles in PLL $\varnothing_S=0.3\text{mm}$, black
8400014	2	230	PPL	0,45 mm	Discoidal brush $\varnothing_F=206\text{mm}$ $\varnothing_E=230\text{mm}$ bristles in PLL $\varnothing_S=0.45\text{mm}$, light blue
8400015	2	230	PPL	0,6 mm	Discoidal brush $\varnothing_F=206\text{mm}$ $\varnothing_E=230\text{mm}$ bristles in PLL $\varnothing_S=0.6\text{mm}$, transparent white
8400016	2	230	TAMPICO		Discoidal brush $\varnothing_F=206\text{mm}$ $\varnothing_E=230\text{mm}$ bristles in TAMPICO
8400017	2	206			Drive disc $\varnothing_F=206\text{mm}$ with center lock (ver. abrasive pads)
8400136	2	206			Drive disc $\varnothing_F=206\text{mm}$ with centre lock (ver. microfibre pads)

ABRASIVE PADS

As an alternative to brushes, drive discs can be used. They consist of the rigid brush body without the bristles, which are replaced by abrasive pads.

ABRASIVE PAD
Ideal for both regular and non-routine cleaning
Perfect for porcelain floors; tuff or microporous surfaces
Ideal for resin floors; cement floors; polishing operations
Not suitable for uneven floors with joints

Colouring of abrasive pads according to the work to be done

CODE	COLOUR	TYPE OF WORK
8400021	White	The white abrasive pad, is ideal for dry polishing of unprotected floors with standard speed machines, Also suitable for spray cleaning operations. They improve shine without scratching or damaging protected pavements
8400022	Brown	The brown abrasive pad is suitable for both dry de-waxing of protected floors and wet de-waxing with a standard chemical de-waxer. The open weave structure of these washable and reusable discs prevents clogging and material build-up. The combination of highly adaptable, individually separated and coated fibres promotes maximum contact between disc and floor, ensuring excellent cleaning results at low cost
8400020	Black	The black abrasive pad is suitable for total wet de-waxing of hard surfaces with de-waxing chemicals and standard speed machines. The open weave structure of these washable and reusable discs prevents clogging and material build-up. The even distribution of the mineral abrasives over the entire disc, and not only on the surface, guarantees outstanding performance and a long product life. The combination of highly adaptable, individually separated and coated fibres promotes maximum contact between disc and floor, ensuring excellent cleaning results at low cost

CODE	COLOUR	TYPE OF WORK
8400018	Red	The red abrasive pad is designed for spray cleaning and regular maintenance operations on protected surfaces. These discs exert a cleaning action when wet and an abrasive action when used dry. The open weave structure of these washable and reusable discs prevents clogging and material build-up. The even distribution of the mineral abrasives over the entire disc, and not only on the surface, guarantees outstanding performance and a long product life. The combination of highly adaptable, individually separated and coated fibres promotes maximum contact between disc and floor, ensuring excellent cleaning results at low cost. For use with standard-speed or high-speed machines
8400019	Green	The green abrasive pad is suitable for partial wet debinding of unprotected hard surfaces. They can also be used to prepare hard surfaces before re-waxing and to completely de-wax flooring such as lino or vinyl. The open weave structure of these washable and reusable discs prevents clogging and material build-up. The combination of highly adaptable, individually separated and coated fibres promotes maximum contact between disc and floor, ensuring excellent cleaning results at low cost

DIAMOND ABRASIVE PADS

For polishing and sanding of non-smooth surfaces, the use of diamond abrasive pads is required because they allow the removal of dirt and scratches caused by wear and tear.

The steps to be carried out before polishing-sanding with the diamond disc are:

1. First sanding step using 500 grit.
2. Second sanding step using 1000 grit.
3. Third sanding step using 2000 grit.
4. Fourth crystallisation step with 5000 grit.
5. Fifth step for protection and/or maintenance (microfibre cloth): add small amounts of chemical to polish the surface, we recommend maintenance with a microfibre cloth once every 6 months or as required.

Colouring of abrasive pads according to the work to be done

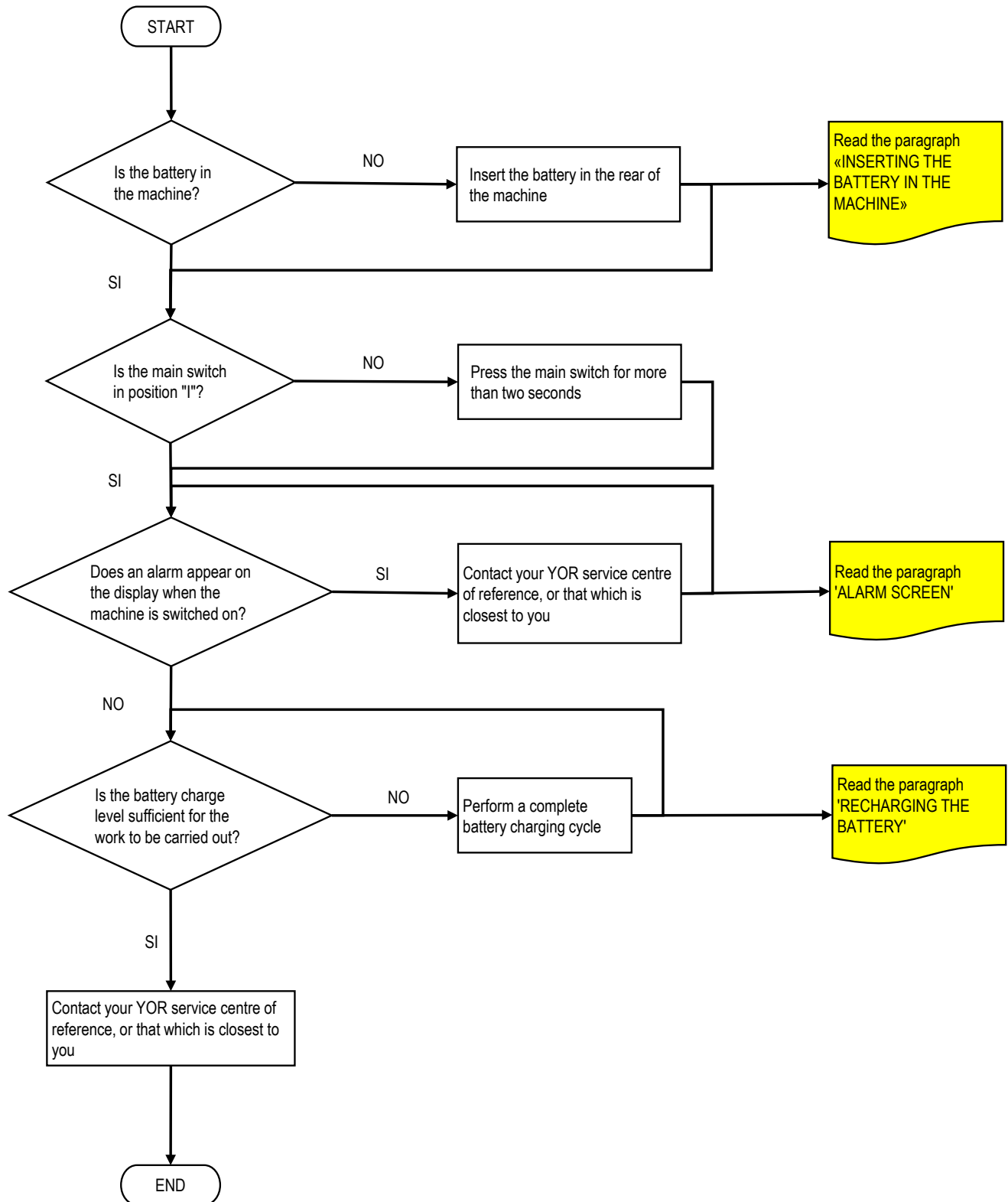
CODE	COLOUR	TYPE OF WORK
8400157	Blue (GR500)	Removes excess densifier leaving a matt finish, removes marks and small scratches from the surface
8400176	Red (GR1000)	Use after GR500 grit for a satin finish, if the surface is not very worn it can be the starting pad
8400183	Beige (GR2000)	Use after GR1000 grit for a semi-gloss finish
8400198	White (GR5000)	Use after GR2000 grit for a gloss finish
8400137	Microfibre pad	To be used after the GR5000 for surface protection and/or maintenance



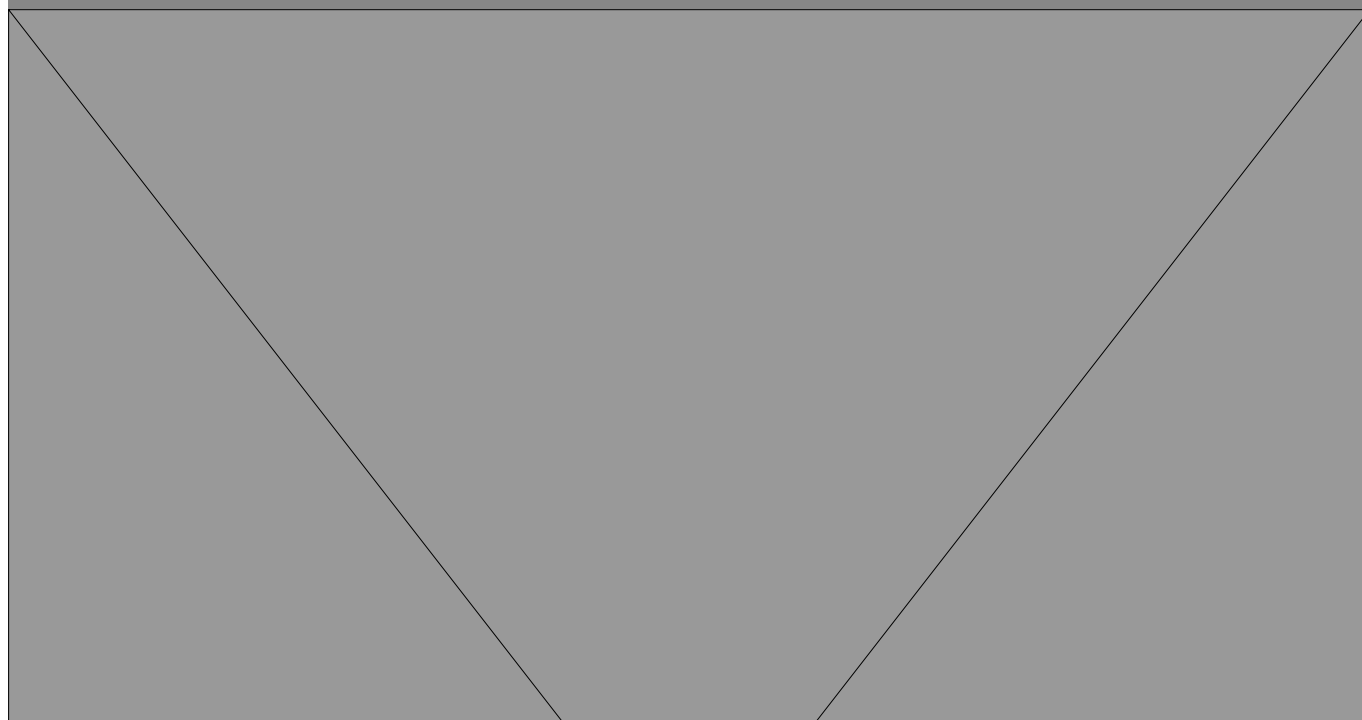
N.B.: use the 500 grit pad for daily surface maintenance operations; Use the 2000-grit pad and the 5000-grit pad for surface maintenance work on a monthly basis; Use the 1000 grit pad, the 2000 grit pad and the 5000 grit pad for surface maintenance work on an annual basis.

TROUBLESHOOTING

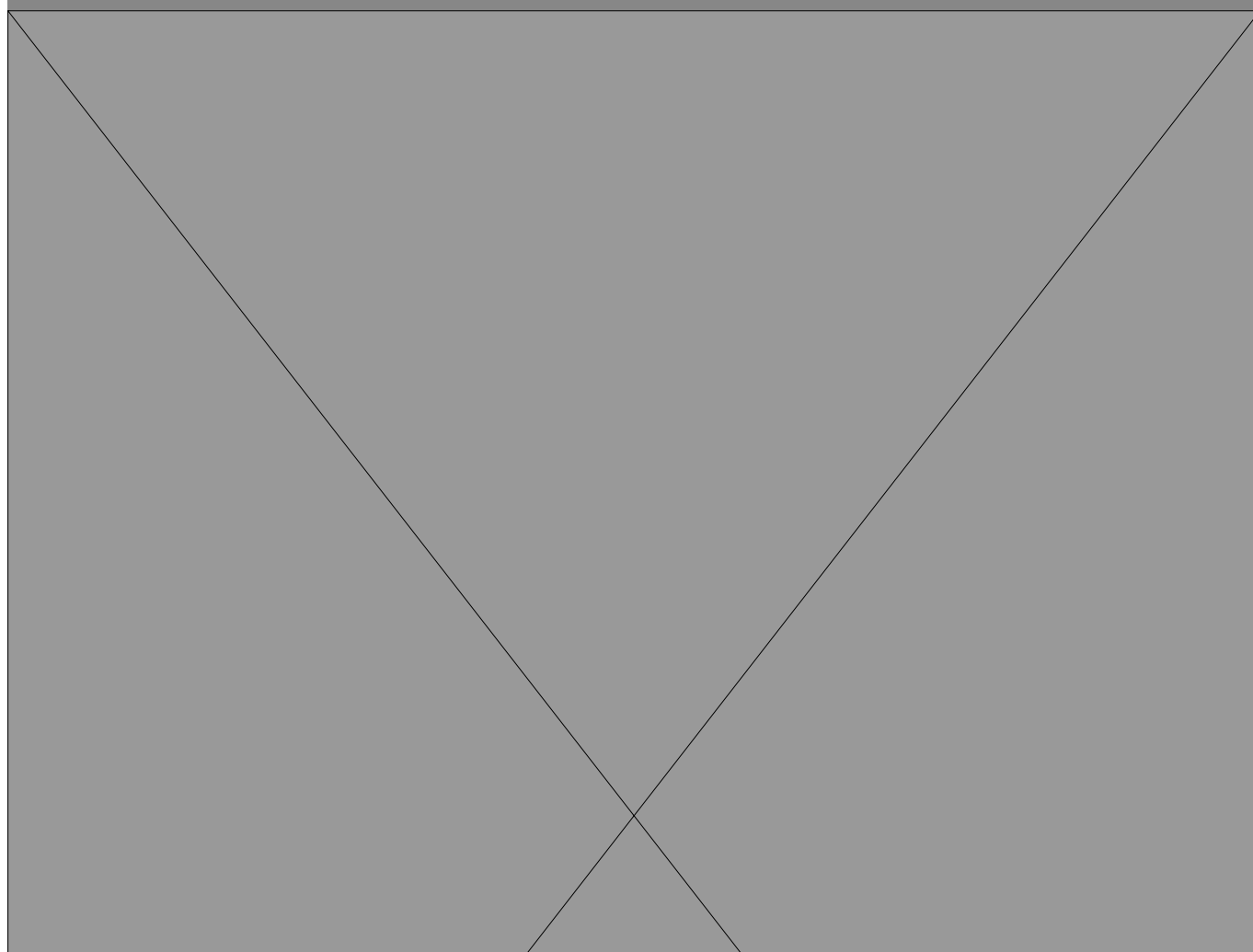
THE MACHINE DOES NOT START



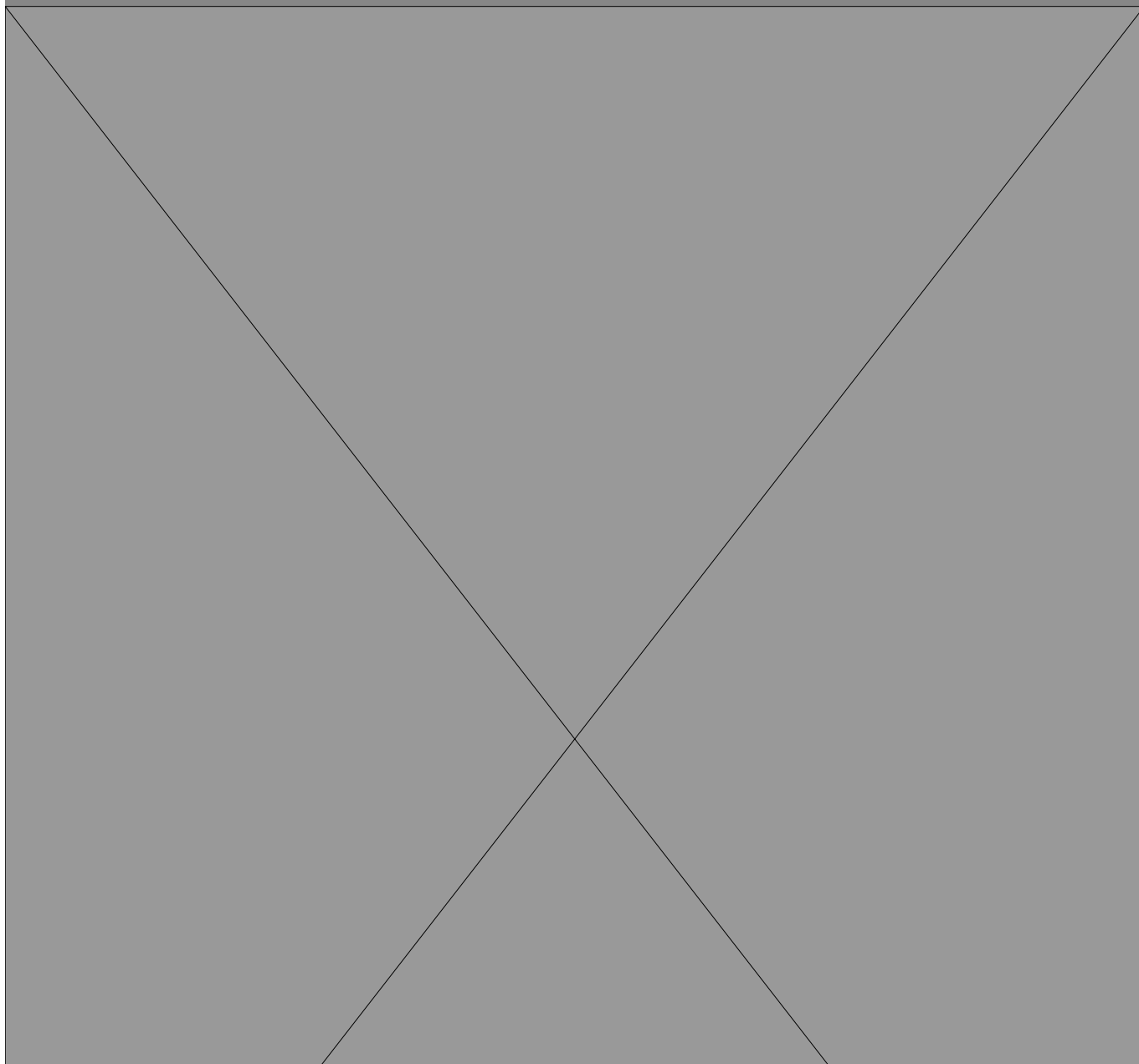
AN ALARM APPEARS ON THE CONTROL DISPLAY



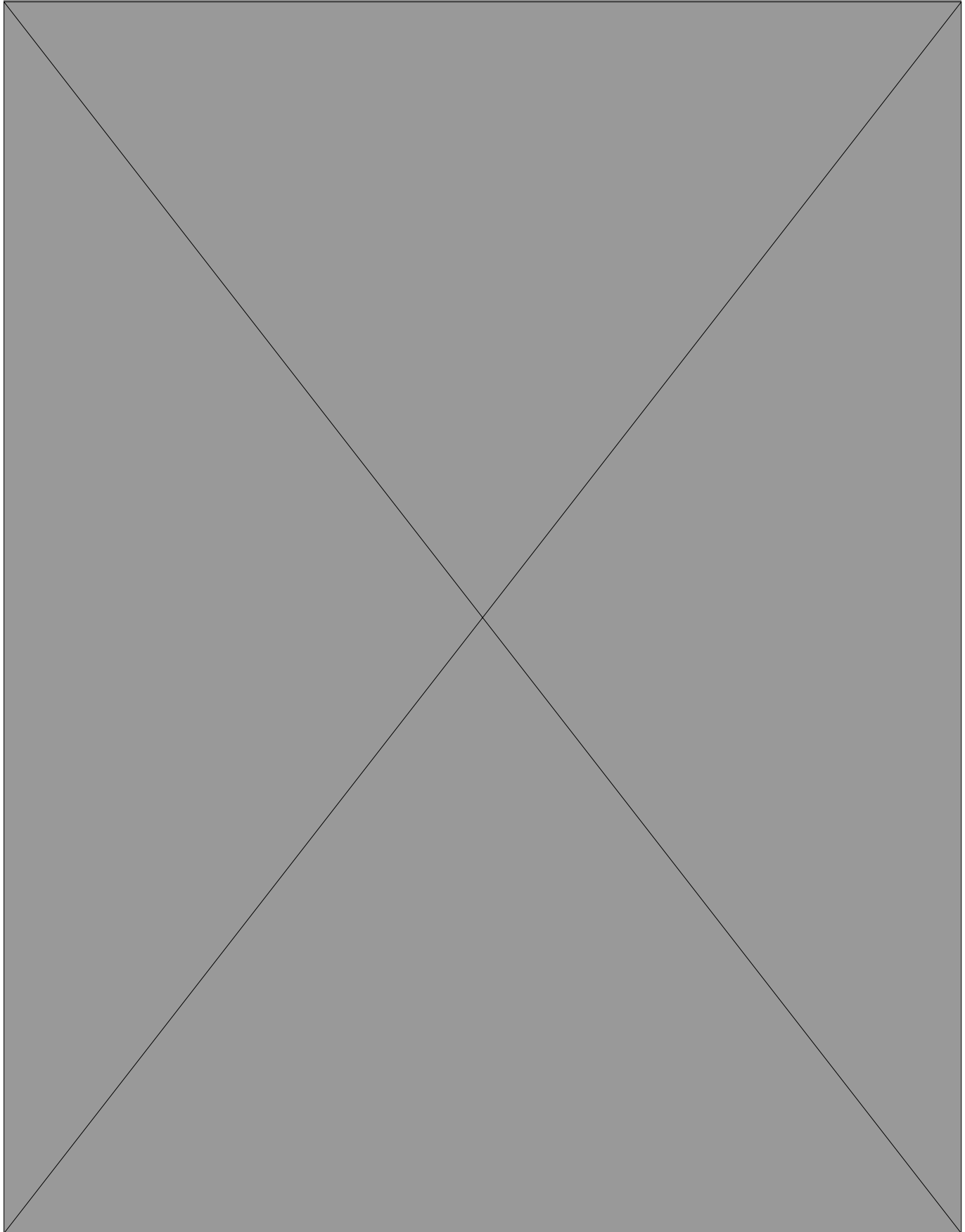
THE BATTERY DOES NOT CHARGE COMPLETELY



THE BATTERY DOES NOT WORK PROPERLY

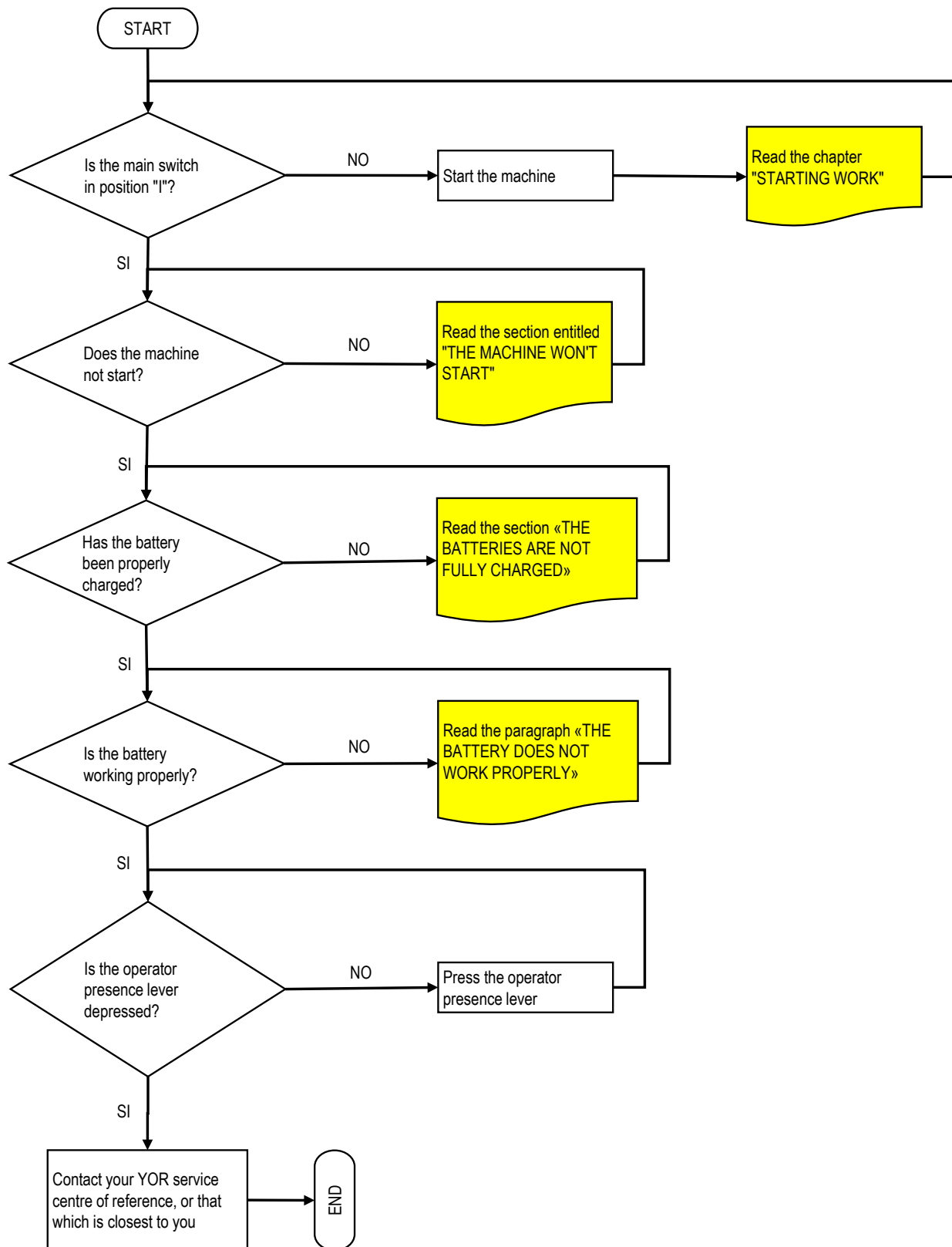


VERY LOW WORKING AUTONOMY

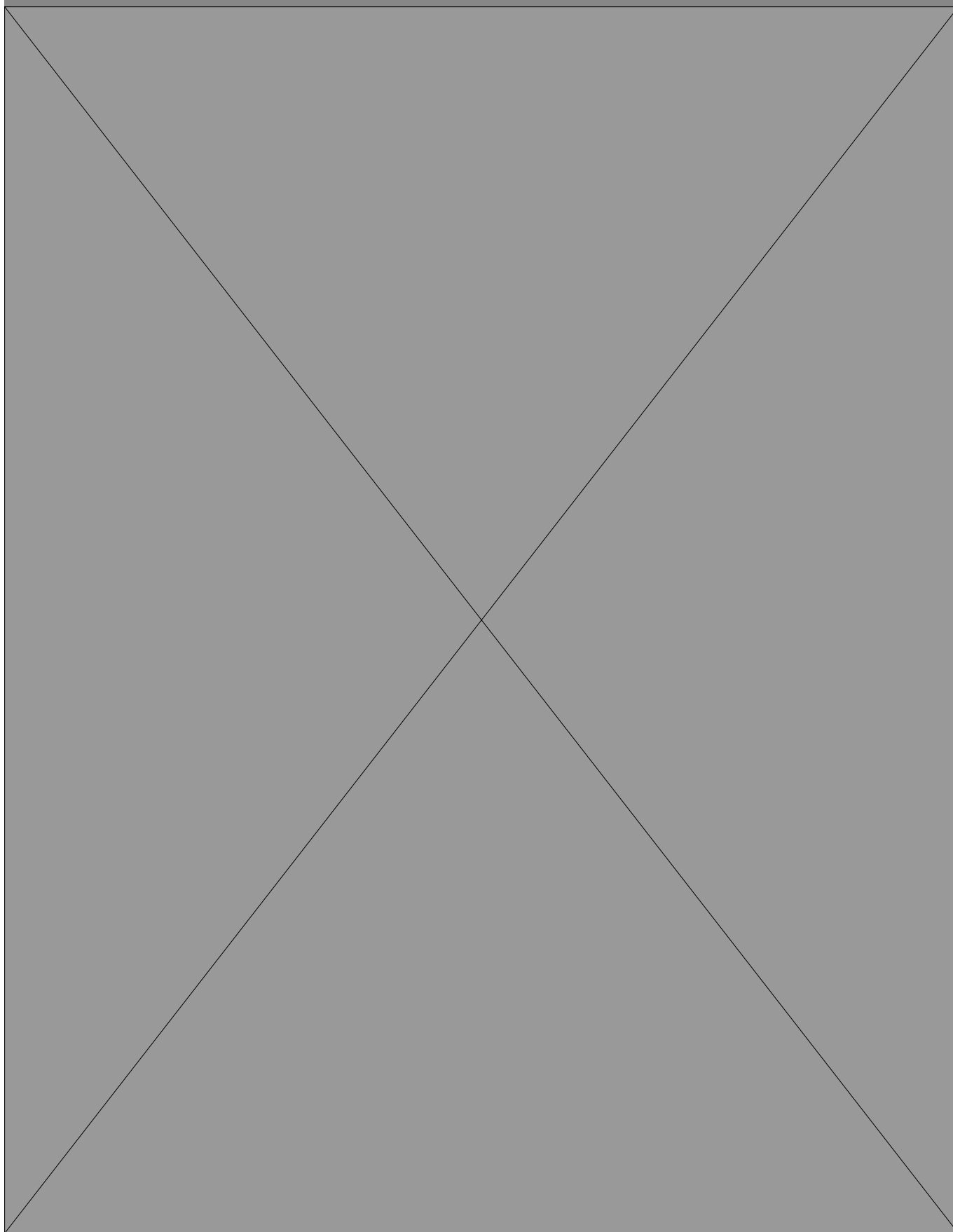


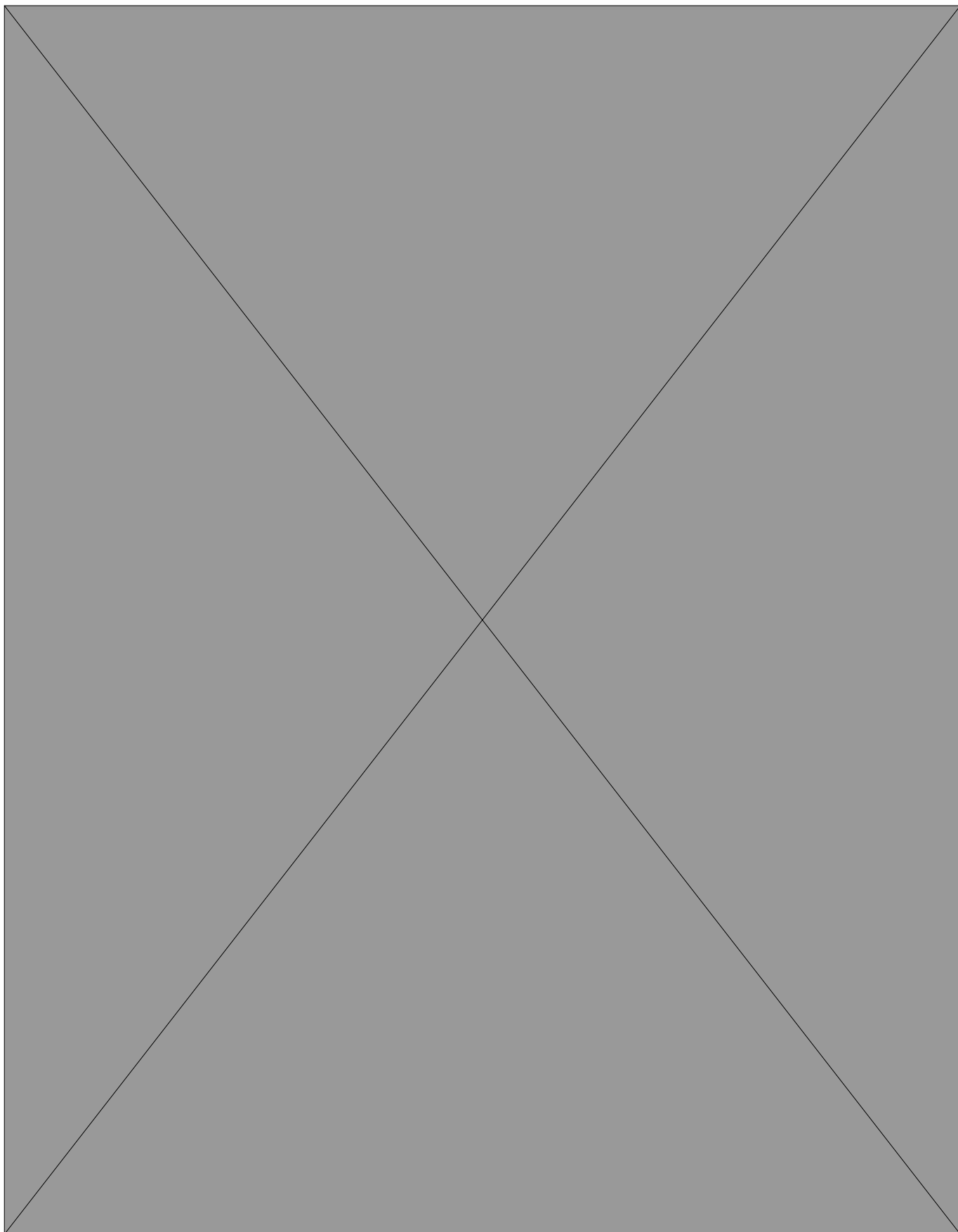
TROUBLESHOOTING

THE MACHINE DOES NOT MOVE

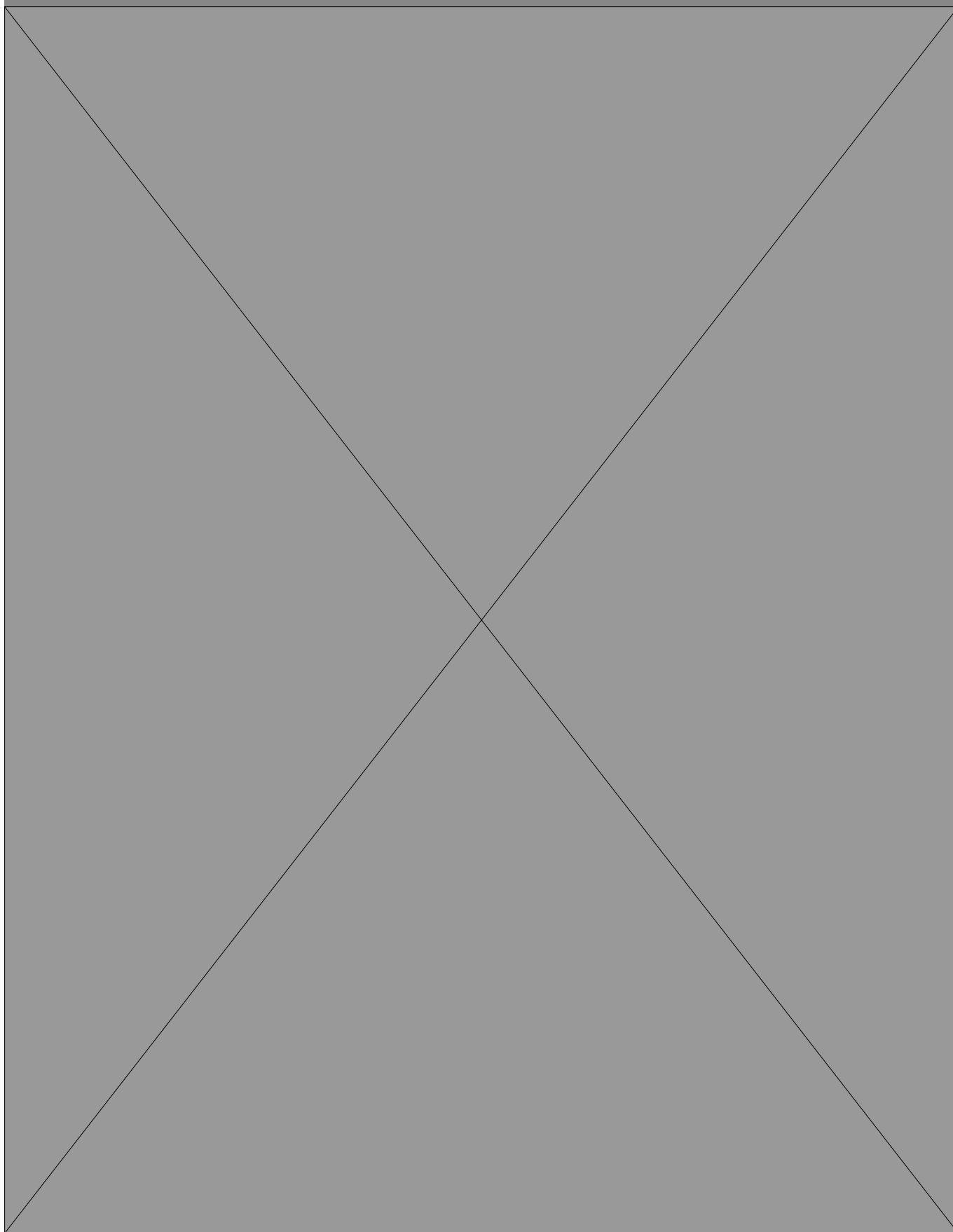


THE MACHINE DOES NOT CLEAN CORRECTLY

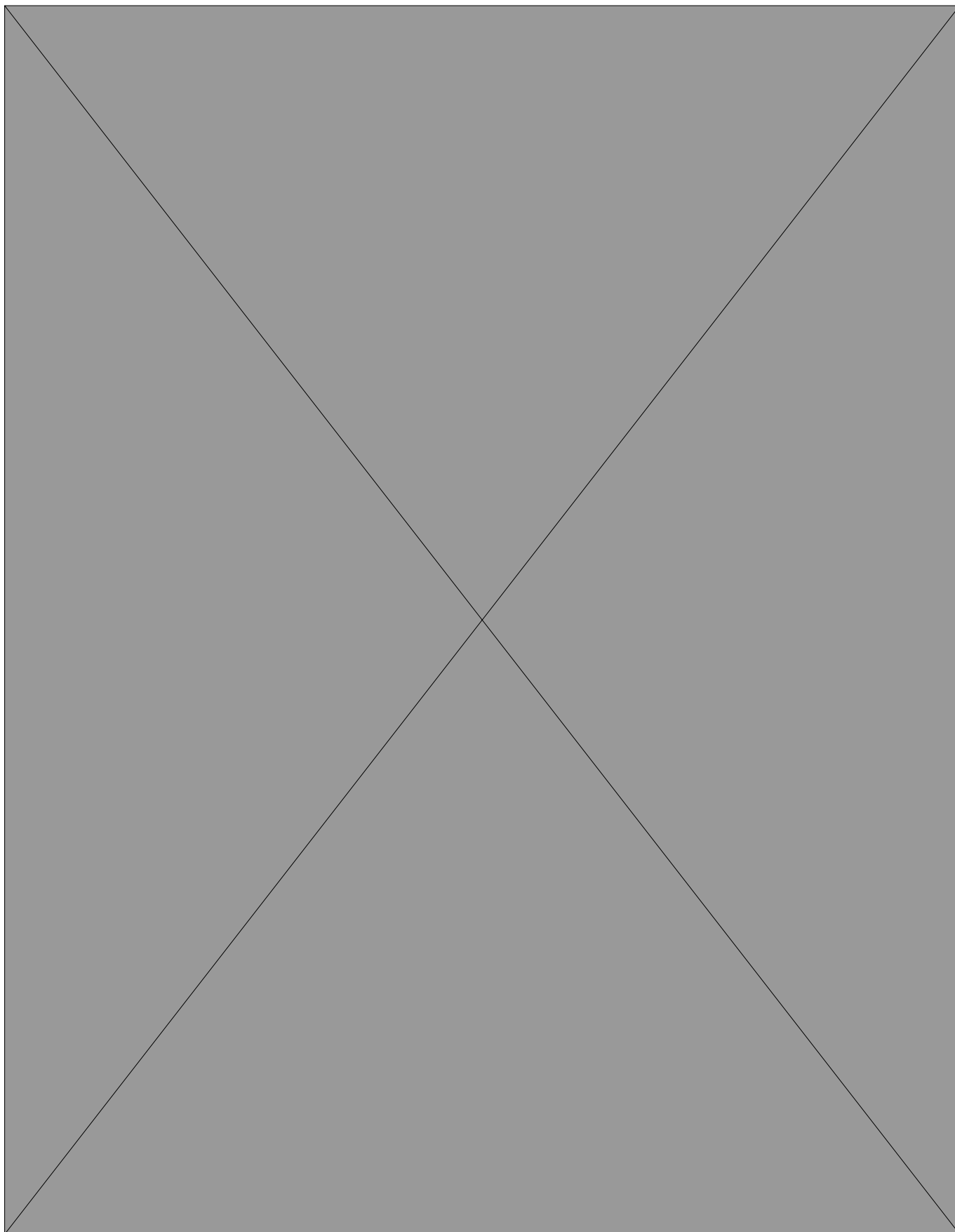




INSUFFICIENT DETERGENT SOLUTION ON THE BRUSHES



THE VACUUM SYSTEM DOES NOT WORK PROPERLY



EXCESSIVE FOAM PRODUCTION

EC DECLARATION OF CONFORMITY



The undersigned manufacturer:

YOR International S.r.l.
Viale del Lavoro, 22/G
37036 San Martino Buon Albergo (VR)
Verona, Italy

declares under its sole responsibility that the products

FLOOR SCRUBBING MACHINES

mod. V1

comply with the requirements of the following Directives:

- 2006/42/EC: Machinery Directive.
- 2014/30/EU: Electromagnetic compatibility directive.

The person authorized to compile the technical file:

Mr. Gianmaria Ruffo
Viale del Lavoro, 22/G
37036 San Martino Buon Albergo (VR)
Verona, Italy

San Martino Buon Albergo (VR), 05/05/2023

YOR International S.r.l.
Legal representative
Gianmaria Ruffo



UKCA DECLARATION OF CONFORMITY



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FLOOR SCRUBBING MACHINES

mod. V1

comply with the requirements of the following Directives:

- S.I. 2008/1597 Supply of Machinery (Safety) Regulations 2008 (as amended).
- S.I. 2016:1091 Electromagnetic Compatibility Regulations 2016 (as amended).

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San Martino Buon Albergo (VR), 05/05/2023

YOR International S.r.l.
Legal representative
Gianmaria Ruffo



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