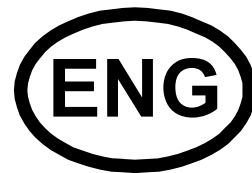




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Translation of the
original user guide

USER GUIDE

Cleanion



CONTENTS:

- Cleanion sweeper
- Rotary brush

READ THE USER GUIDE CAREFULLY BEFORE USING THE MACHINE



95_124843_C - 05/2017

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INTRODUCTION

Dear Customer,

Thank you for buying the *Cleanion* sweeper. When correctly used and maintained, this tool will provide you with years of satisfaction.



ENVIRONMENTAL PROTECTION

Your equipment comprises numerous materials which can be valorised or recycled. Entrust these to your reseller or to an approved service centre so that they can be processed.



Comply with the regulations in force in your country as concerns environmental protection associated with your activity.



SAFETY INSTRUCTIONS



PLEASE SAVE THESE INSTRUCTIONS


This manual contains important information and operating instructions for the following tool: the *Cleanion* sweeper

It is **IMPERATIVE** that you read through the **ENTIRE USER'S MANUAL** before using or servicing the tool. Always comply with the instructions and illustrations in the manual.

All through this user guide you will find advisory notes and information entitled: **REMARK, CAUTION / WARNING**.

A **REMARK** provides additional information, clarifies a point or explains a step to be followed in detail.

The **CAUTION** and **WARNING** advisories are used to define a procedure which, if neglected or incorrectly performed, may lead to serious damage to the equipment and/or personal injury.

This advisory:  indicates that if the procedures or instructions are not complied with, any damage will not be covered by the warranty and the owner will be responsible for the repair costs.

Safety indications are also given on the tool; they remind you of the safety precautions to be taken. Identify and read these indications before using the tool. Immediately replace any indications that may become partially illegible or deteriorated.

Refer to the «SAFETY INDICATIONS» heading in order to identify the location of the safety indications on the tool.

No part of this manual may be reproduced without the written consent of PELLENC. The illustrations given in this manual are for information purposes and are in no way contractual. PELLENC reserves the right to make any modification or improvement to its products as deemed necessary without informing customers already in possession of a similar model. This manual forms an integral part of the tool and must accompany the tool if it changes hands.

PLEASE SAVE THESE INSTRUCTIONS

GENERAL SAFETY INSTRUCTIONS FOR THE TOOL



CAUTION Read all the safety measures and all the instructions.
Retain all the safety measures and instructions for later reading.

This device is not intended for use by anyone (including children) with reduced physical, sensory or mental capabilities, nor by anyone lacking in experience or knowledge, except if they are supervised or have received prior instructions from a person responsible for their safety.

- The *Cleanion* sweeper is a professional tool whose use is reserved exclusively for interior or exterior cleaning of roadways, industrial sites, tourist or private areas. The sweeper removes dirt from floors, clears leaves and ploughs snow. Other uses are not authorised.
- The *Cleanion* sweeper should not be used for sweeping buildings used for caring for livestock (e.g. horse stables, cowsheds, sheepfolds etc.). The bristles of the brush could detach and be consumed by the animal causing injury.
- PELLENC SA accepts no liability for any damage caused by improper use or use other than that for which it is intended.
- PELLENC SA accepts no liability for any damage caused by the use of non-original parts or accessories.

OPERATING RULES CONCERNING SAFETY TO BE COMPLIED WITH WHEN USING THE SWEEPERS.

Training

- a. Read the instructions carefully. Become familiar with the commands and the proper use of equipment.
- b. Never allow children or individuals who are unfamiliar with these instructions to use the machine. National regulations may restrict operator age.
- c. Never operate the machine while other people, especially children, or pets, are standing nearby.
- d. Keep in mind that the operator or user is responsible for any accidents caused by them and the dangers that other people or their property may be subject to.

Preparation

- a. Always wear resistant footwear and long pants when operating the machine. Do not operate the machine barefoot or in sandals. Do not wear loose clothing, items with loose cords, ties and unattached hair that can get caught in the moving organs of the machine. Do not wear jewellery.
- b. Before use, always visually inspect the machine to ensure that the bolts and assembly of the latter are not worn or damaged. Replace sets of worn or damaged components in order to maintain proper balance. Replace damaged or difficult to read labels.
- c. Before use, check the power cable to detect signs of damage or ageing. Immediately disconnect the battery if the cable becomes damaged during use. **DO NOT TOUCH THE CABLE UNTIL YOU TURN OFF THE BATTERY.** Do not use the machine if the cable is damaged or worn.

Operation

- a. Only operate the machine in daylight or in good artificial lighting. Use safety equipment. Always wear eye protection.
- b. Always place your feet firmly when on slopes.
- c. Walk, never run.
- d. Be particularly careful when changing direction on slopes.
- e. Use the machine with extreme caution when using it in reverse or pulling it toward you.
- f. Shut off the machine if it has to be tilted for transport.
- g. Never use the machine with defective guards, or without the safety devices in place.
- h. Do not put hands or feet near or under rotating parts.
- i. Do not transport the machine while the power source is attached.
- j. Stop the machine, turn off the battery and remove the battery connector. Make sure all moving parts have completely stopped.
- k. Stop the machine and turn off the battery. Make sure all moving parts have completely stopped
 - before leaving the machine unmanned
 - before cleaning jams
 - before checking, cleaning or repairing the machine
 - if the machine starts to vibrate abnormally (check it immediately)
 - inspect the machine for damage
 - repair or replace any damaged parts
 - check for any loose parts and tighten those that are found.

SAFETY INSTRUCTIONS

Maintenance and Storage

- a. Make sure all nuts, bolts and screws are kept tight to be sure that the equipment is in good operating condition.
- b. Replace worn or damaged parts so that the machine remains safe. Only use original spare parts and accessories.

SAFETY MEASURES ASSOCIATED WITH CHARGER AND BATTERY USE



Please refer to the battery instructions of the relevant Pellenc tools.

SAFETY SIGNALS

SAFETY EQUIPMENT

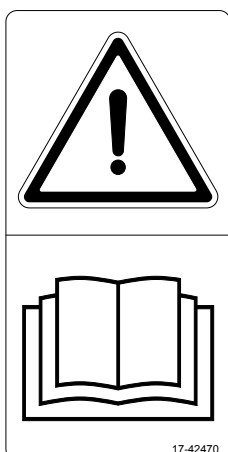


	Protective equipment	Wear
1	Hard-wearing gloves	Recommended
2	Safety footwear	Recommended
3	Ear protection	Recommended
4	Safety goggles	Recommended
5	Safety jacket or over-sleeves	Recommended
6	Work trousers	Recommended

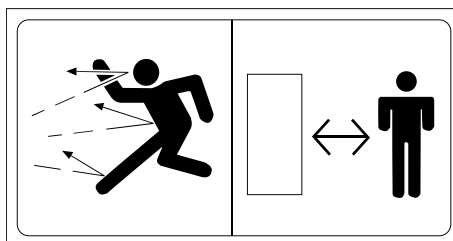
SAFETY SIGNALS

Your sweeper should be used with caution.

With this in mind, pictograms to remind you of the main precautions to be taken have been included on the ejection flap of the machine. Their meaning is explained below



①



②

1- Read the user manual

Read the instructions carefully and observe the safety precautions.

2- Risk of injury

Ensure the people in the vicinity are not injured by projections from the machine.

Keep a safe distance of at least 15 metres between the machine and people in the vicinity.



DESCRIPTION AND TECHNICAL CHARACTERISTICS

- | | |
|-------------------------------------|---------------------------------------|
| 1– Handle | 15– Working pressure adjustment knobs |
| 2– Magnetized control unit | 16– Right trigger |
| 3– Handlebar | 17– Right reverse button |
| 4– Handlebar adjustment knobs | 18– '+' button |
| 5– Handlebar clamping screw | 19– Sweeper direction button |
| 6– Handlebar height adjustment knob | 20– '-' button |
| 7– Battery protection cover | 21– Left reverse button |
| 8– Driving wheels | 22– Left trigger |
| 9– Coupling latch | 23– Brush direction switch |
| 10– Support wheels | 24– LCD display |
| 11– Rotary brush | 25– 'Menu' button |
| 12– Support rods (mesh or bin) | 26– Pellenc ULiB 700 or 1100 battery |
| 13– Support wheel steering knob | 27– Battery power supply cable |
| 14– Level adjustment knob | 28– Coupling latch holding cord |
| | 29– Rotary brush power cable |

TECHNICAL CHARACTERISTICS

Model	CLEANION
Dimensions when folded (l x w x h)	1600 x 1000 x 1000 mm
Working width	100 cm
Weight of tool without battery	99,4 kg
Weight of the tools with ULiB 1100 battery	105,9 kg
Maximum power	1400 Watts
Brush rotation speed	100/130/160/200 rpm
Forward speed:	0.5/1/2/3/4/5 km/h
Maximum reverse speed	1/2 km/h
Sealing level	IP54
Surface autonomy in m ²	Up to 4600

PROTECTION OF WORKERS AGAINST THE RISKS OF EXPOSURE TO NOISE

Determination of the acoustic emission values is consistent with Directive 2000/14/EU and with the EN ISO 3744 standard. The measurement was carried out on a flat asphalt surface, with the machine stopped and the brushes functioning at maximum speed (200 rpm).

Symbol	Value	Unit	Reference	Remark
L _{pa}	70	dB(A)	1 pW	Sound pressure level at the level of the user's ear
L _{wa}	87	dB(A)	1 pW	Guaranteed sound power level

PROTECTION OF WORKERS AGAINST THE RISKS OF EXPOSURE TO VIBRATIONS

Determination of the hand /arm vibration rate with the hands on the machine was carried out according to VDI 2057/sheet 2. The measurement was carried out on a flat asphalt surface, and the vibrations measured at the level of the handlebars in 3 areas according to DIN EN ISO 20643:2012-10.

Operating status of the machine: machine honed under full load/machine in motion (2 km/h)/brushes operating at maximum speed (200 rpm)/standard height adjustment of the brushes/brushes centred.

Effective measurement determined after 60 seconds	Handlebar
	A _h = 2.26 m/s ²

TOOL PREPARATION

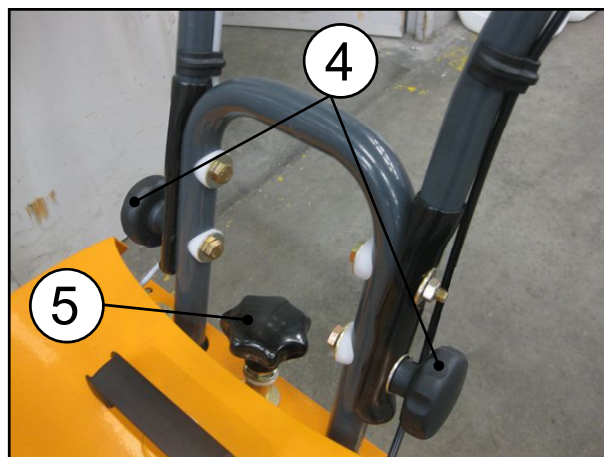
Your sweeper is currently disconnected from its tool, which was configured in transport mode. The handlebar (3) is folded forwards and locked in place by the handlebar adjustment knobs (4).

Follow the start-up instructions below to begin to use your sweeper.



UNFOLDING THE DRIVING ELEMENT

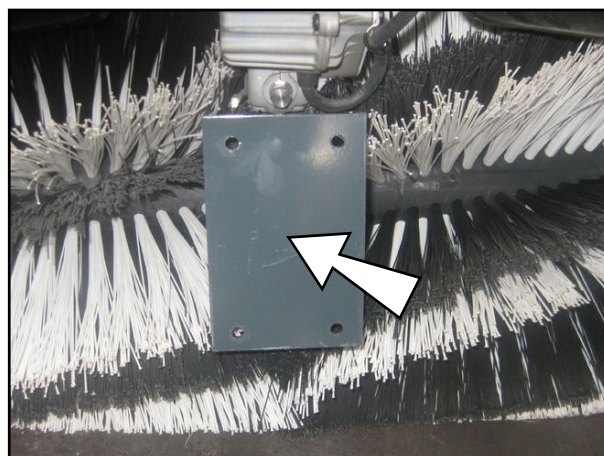
- Turn the handlebar adjustment knobs (4) to unlock the handlebar (3).
- Tilt the handlebar (3) backwards.
- Turn the handlebar adjustment knobs (4) to lock the handlebar (3).
- Turn the wheel height adjustment knob (5) to adjust the handlebar height (3), if necessary.



WARNING: To be able to easily manoeuvre your sweeper, choose a comfortable and agreeable working position to suit your morphology.

INSTALLING THE TOOL'S TILT SYSTEM

- Find the attachment location for the tool's tilt system.



TOOL PREPARATION

- Position the tilt system at the attachment location, facing the mounting holes.
- Install the 4 screws and washers.

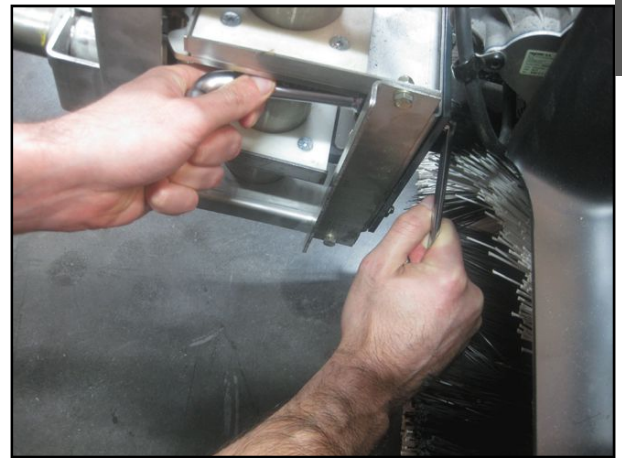


- Install the 4 washers and nuts on the other side.
- Hold the screws in place with a 13 mm socket wrench and tighten the nuts with a 13 mm openjaw spanner.



13 mm openjaw spanner

13 mm socket wrench

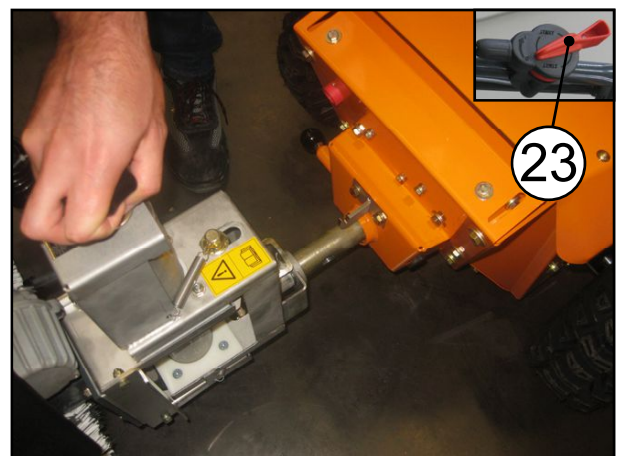


Turn the tilt adjustment knob (14) clockwise for easy access to the upper screws.

Turn the tilt adjustment knob (14) counter-clockwise for easy access to the lower screws.

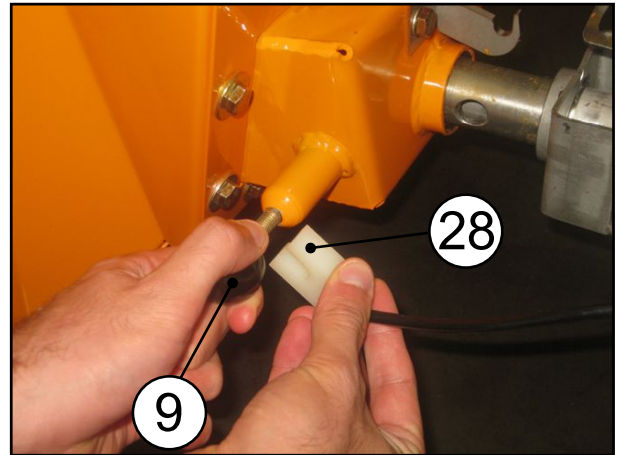
COUPLING OF THE TOOL

- Make sure the brush position switch (23) is set to '0'.
- Place the tool shaft in the coupling slot of the sweeper.

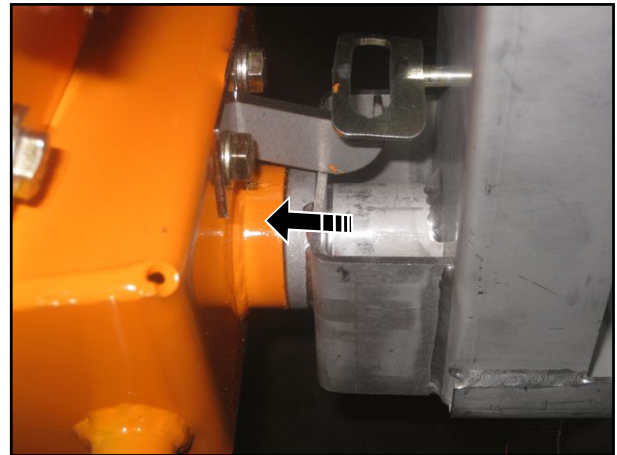


TOOL PREPARATION

- Pull on the coupling latch (9).
- Insert the holding cord (28) on the thread of the coupling latch (9).



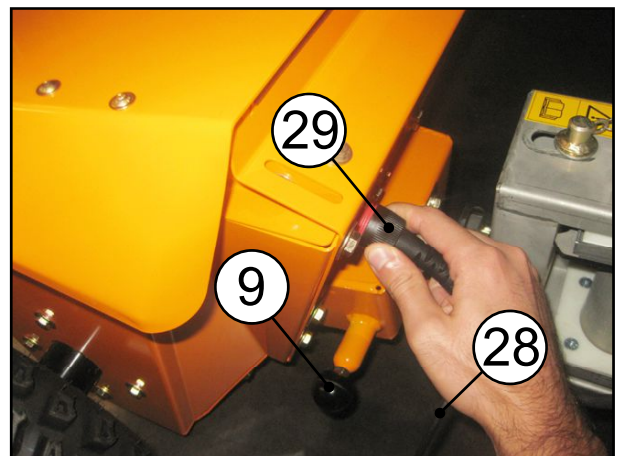
- Push the tool until it stops.



After first installing the battery (see the 15 - 16 pages), it is possible to use the motor of the sweeper to assist you, thus facilitating the coupling of the tool.

Adjust the driving speed to the position 'A-L' and press the forward drive command (see how to adjust the travel speed on the 17 page and the steering controls on the 20 page).

- Remove the holding cord (28) from the thread of the coupling latch (9).
- Make sure the coupling latch (9) is locked in the tool.
- If the rotary brush tool is being attached, connect the power cable of the rotary brush (29) making sure to align the coded pins.



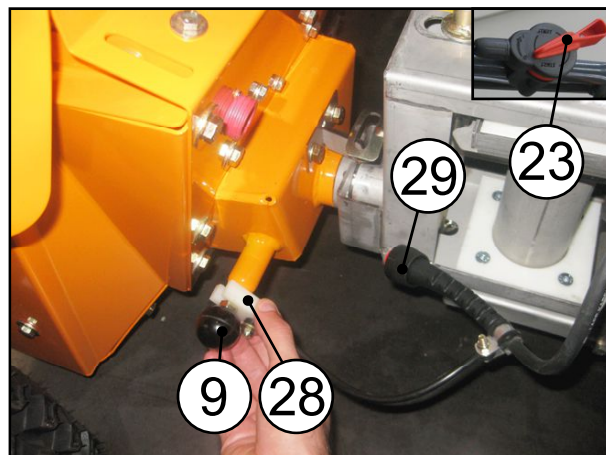
ATTENTION: Always ensure that the tool is properly coupled before starting work.



The sweeper can operate with different types of tools to suit your needs: Snowplough blade, leaf pusher etc. The coupling procedure is the same for all tools.

UNCOUPLING OF THE TOOL

- Disconnect the power cable from the rotating brush (29) when uncoupling the rotating brush tool.
- Place the retaining cord (28) on the thread of the coupling latch (9).
- Make sure that the coupling hook is not engaged in the grommet of the tool (brush orientation switch (23) in the '0' position).



- Make sure that the support wheels (10) are oriented to position A (see orientation of the support wheels on the 19 page).
- Stand on the right side of the sweeper and hold the tool and the handlebar.
- Pull the tool shaft out of the coupling housing of the sweeper.
- Tilt the support wheels (10) into position C and store the rotating brush (see orientation of the support wheels on the 19page).



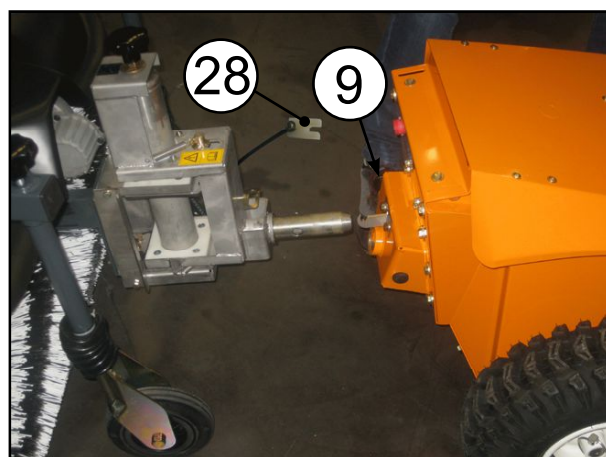
After first installing the battery (see the 15 - 16 pages), it is possible to use the motor of the sweeper to assist you, thus facilitating the uncoupling of the tool.

Adjust the driving speed to the position 'A-L' and press the reverse drive command (see how to adjust the travel speed on the 17 page and the steering controls on the 20 page).



ATTENTION: The brush support wheels must be oriented in position C when it is not coupled (see orientation of the support wheels on the 19 page). Risk of deformation of the brush during storage.

- Remove the holding cord (28) from the thread of the coupling latch (9).
- Remove the tool from the sweeper.

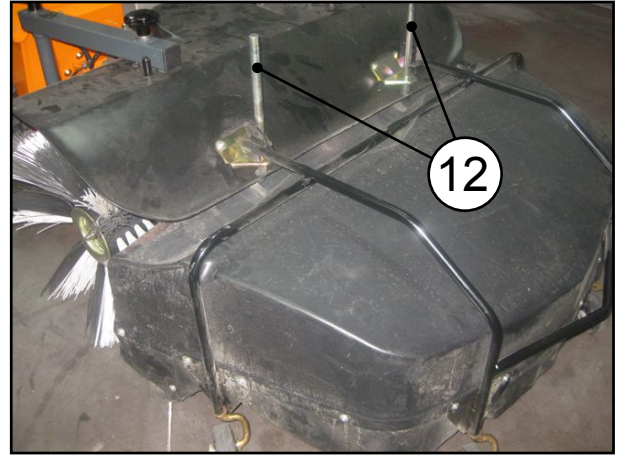


TOOL PREPARATION

INSTALLING A WASTE COLLECTION BIN (OPTIONAL)

The waste collection tray is an option that mounts onto the rotating brush tool. It collects the debris swept up by the brush. To empty the tray, simply remove it with its handle.

- Fit the mounting brackets of the waste collection tray onto the support rods (12).
- Slide the mounting brackets of the waste connection tray along the support rods (12) to the stop.
- Make sure that the seal in the waste collection tray is placed under the protective cover of the rotating brush.



- Remove the waste collection tray with its handle to empty it if necessary.

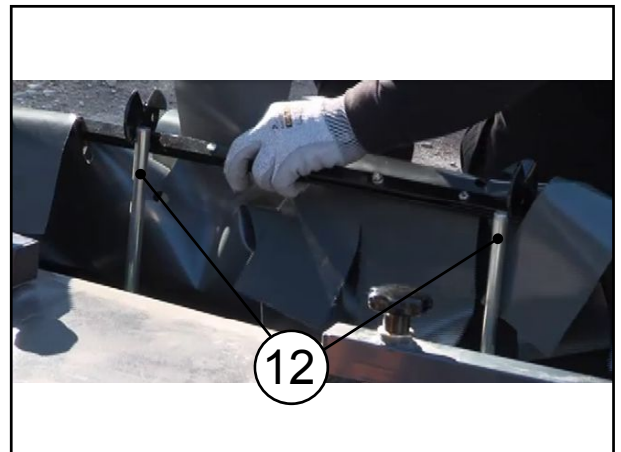


The waste connection bin is only installed when using the rotating brush tool.

INSTALLING THE ANTI-GRAVEL MESH (OPTIONAL)

The anti-gravel mesh is an option that mounts onto the rotating brush tool. It reduces the spread of dust in the air and stops projections during sweeping.

- Fit the mounting brackets of the anti-gravel mesh onto the support rods (12).
- Slide the mounting brackets of the anti-gravel mesh along the support rods (12) to the stop.
- Fold the tabs of the anti-gravel mesh onto the support rods (12).

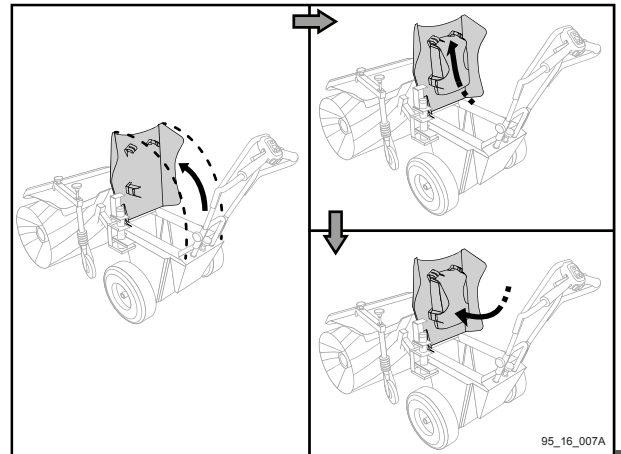


The anti-gravel mesh is only installed with the rotating brush tool is being used.

TOOL PREPARATION

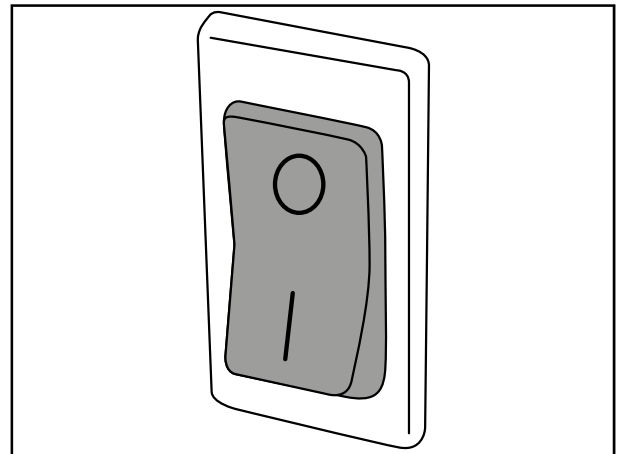
FITTING THE BATTERY

- Open the battery cover (7).
- Check the charge of the battery (26) before use. If necessary, recharge the battery (26) using the charger supplied with it (26).
- Slide the battery onto the upper hooks of the battery holder.
- Place the battery vertically on the support and push on the rear of the battery.
- Push the lower hooks on the support until they clip onto the battery.
- Check that the battery is completely locked on the support.

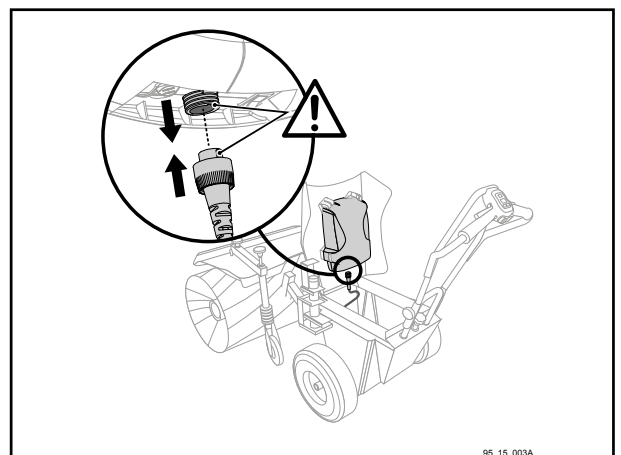


CONNECTING THE BATTERY

- Check that the battery switch is turned off (position '0').



- Connect the power cable (27) to the battery (26) taking care to align the fool-proofing devices.



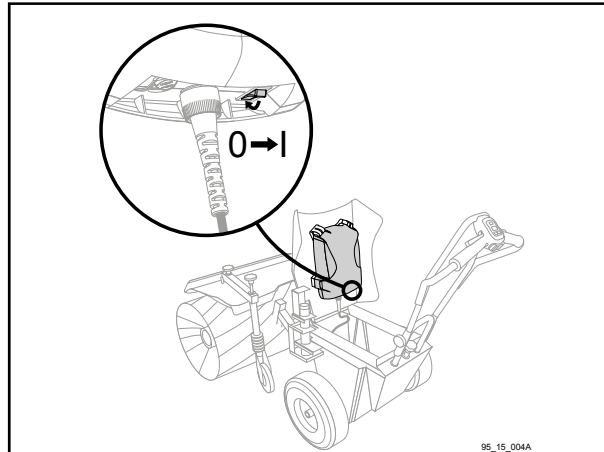
PRELIMINARY SETTINGS ON THE TOOL

Congratulations! Your tool is now ready to operate.

You just need to turn on the battery and make a few preliminary settings (if they have not already been done) and you can start sweeping. Make the settings using the control unit (2).

TURNING THE BATTERY ON

- Turn on the battery by flipping the switch to the 'I' position.

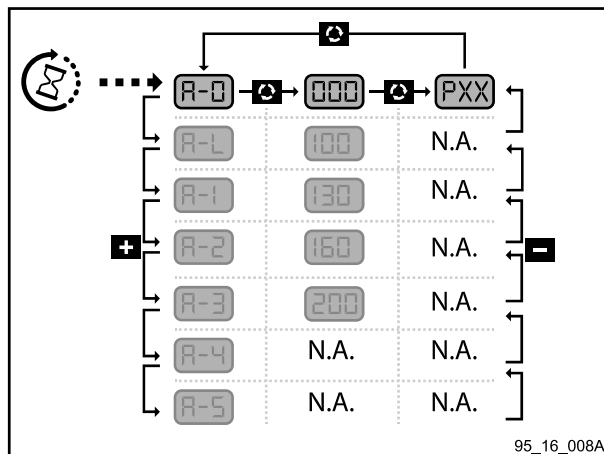


CONTROL UNIT

You can begin by configuring the settings for the sweeper as soon as initialisation is completed and the display is fixed on the last forward speed recorded **A-0**, **A-L**, **A-1**, **A-2**, **A-3**, **A-4** or **A-5**

From the control unit (2) you can set/display:

- the forward speed of the sweeper.
- the brush rotation speed
- the sweeping pressure (P).



To switch from one setting to another, press the 'menu' button (25).



To increase the value of a setting, press on '+' (18)



To decrease the value of a setting, press on '-' (20)



The remaining charge of the battery can be seen on the latest generation of batteries by pressing and holding the 'menu' button (25). Example: "E00" = 0% / "E50" = 50%

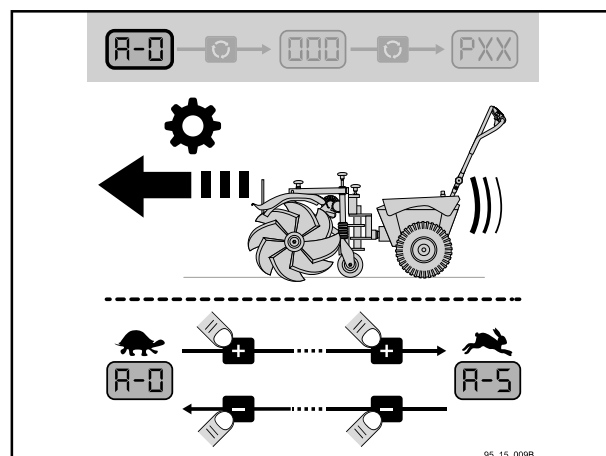
PRELIMINARY SETTINGS ON THE TOOL

FORWARD SPEED OF THE SWEEPER

This sweeper is a walk-behind sweeper. The motors drive the rear wheels and the sweeper moves forward by itself, you just need to steer. This sweeper's revolutionary motor provides substantial assistance for effortless movement.

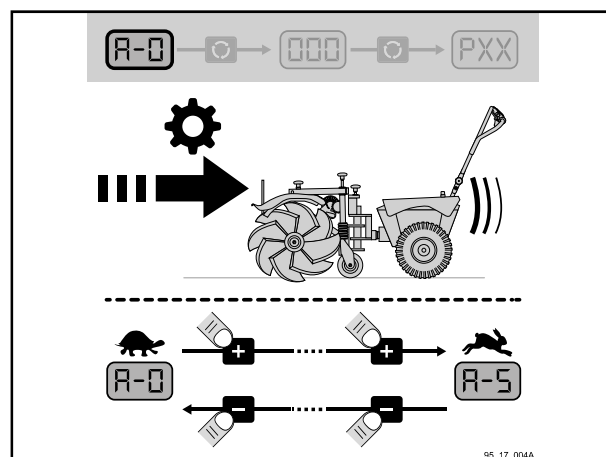
Forward speed: Forward acceleration

- If necessary, press on the 'menu' button (25) until you reach the forward speed setting (represented by the letter A).
- If necessary, press on the '+' (18) or '-' (20) button to select one of the seven possible values:
 - A-0: no traction, braked machine**
 - A-L: with traction, very slow speed (0.5 km/h)**
 - A-1: with traction, slow speed (1 km/h)**
 - A-2: with traction, normal speed (2 km/h)**
 - A-3: with traction, moderate speed (3 km/h)**
 - A-4: with traction, accelerated speed (4 km/h)**
 - A-5: with traction, highest speed (5 km/h)**



Forward speed: Reverse drive

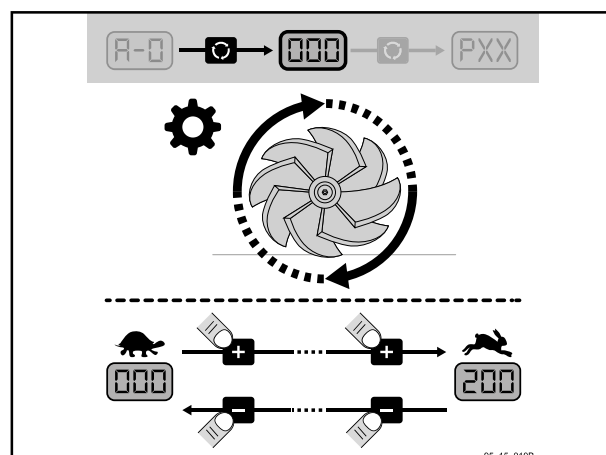
- If necessary, press on the 'menu' button (25) until you reach the forward speed setting (represented by the letter A).
- If necessary, press on the '+' (18) or '-' (20) button to select one of the seven possible values (3 actual speeds):
 - A-0: no traction, braked machine**
 - A-L/A-1: with traction, speed 1 km/h**
 - A-2/A-3/A-4/A-5: with traction, speed 2 km/h**



For safety reasons, the speed of travel in reverse gear cannot exceed 2 km/h.

BRUSH ROTATION SPEED

- Press the 'menu' button (25) until the menu for adjusting the rotational speed of the rotating brush appears (numerical value).
- Then press the '+' (18) or '-' (20) button to select one of five possible speeds:
 - 000: Brush deactivated.**
 - 100: Slowest speed (100 rpm).**
 - 130: Normal speed (130 rpm).**
 - 160: Accelerated speed (160 rpm).**
 - 200: Highest speed (200 rpm).**



PRELIMINARY SETTINGS ON THE TOOL

PRECISE WORK

The distance between the rotary brush and the ground can be adjusted using the knobs (15) depending on the degree of soiling and the condition of the surface.

- Press the 'menu' button (25) to display the working pressure indicator (represented by the letter P).
- Turn the pressure adjusting knobs (15) clockwise to adjust the rotary brush in the high position.



ATTENTION: Too low pressure will lead to incomplete work of the rotating brush.

- Turn the pressure adjusting knobs (15) counter-clockwise to adjust the rotary brush in the low position.

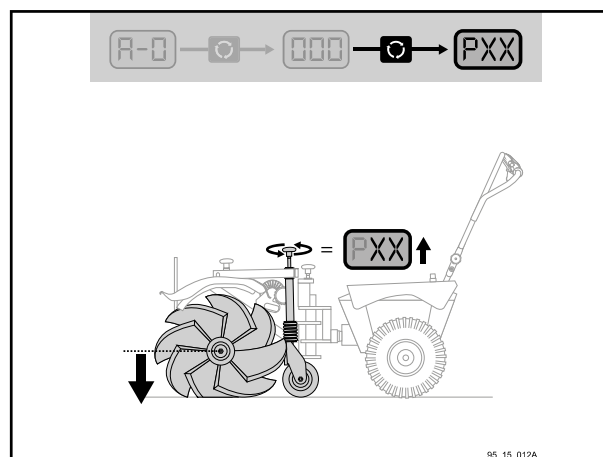
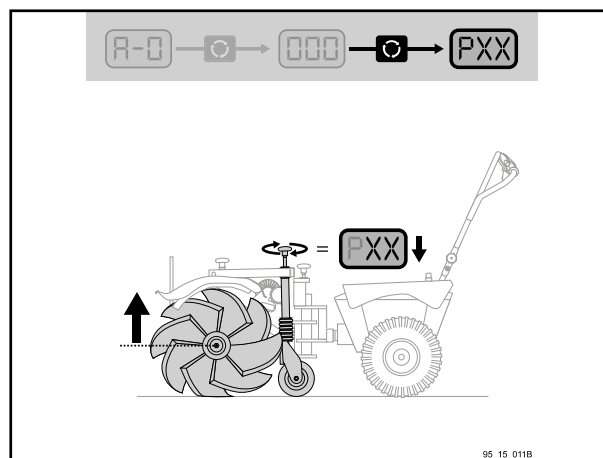


ATTENTION: Too high pressure will lead to reduced battery life and cause heavy wear on the rotating brush.



The pressure indicator 'PXX' is given as information. The closer the rotating brush is to the ground and the greater the power will be. Conversely, the higher the rotating brush from the ground, the lower the power will be.

For standard sweeping, the value displayed on the screen must be between P14 and P20 at 100 rpm.



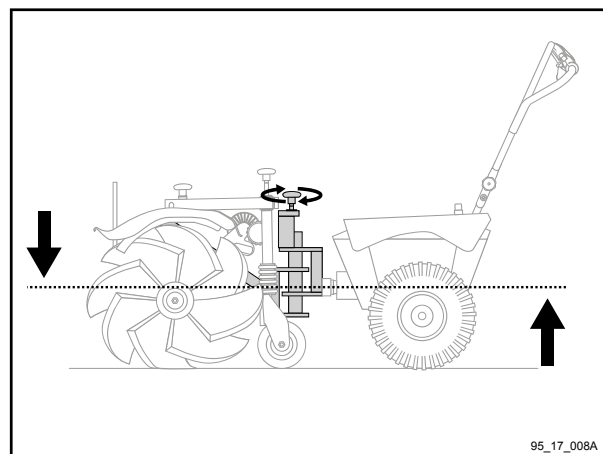
TILT ADJUSTMENT:

Adjustment of the horizontal position of the sweeper with respect to the ground is done with the tilt adjustment knob (14). A parallel setting between the machine and the ground is necessary following wear or replacement of the rotating brush.

- Turn the tilt adjustment knob (14) clockwise to adjust the tilt of the sweeper to the front.

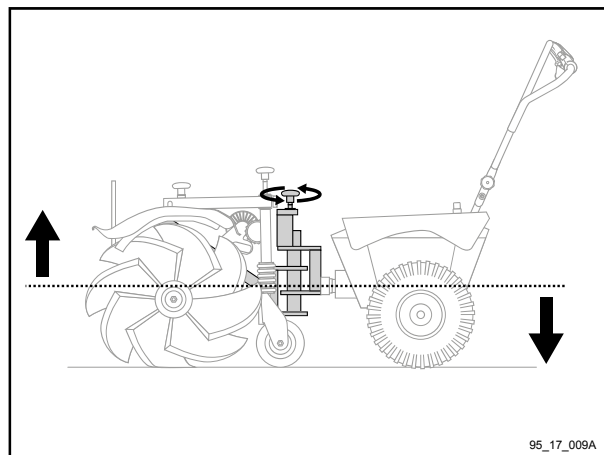


ATTENTION: Do not turn the tilt adjustment knob (14) clockwise as far as it will go. There is a risk of damage to the guide spring.



PRELIMINARY SETTINGS ON THE TOOL

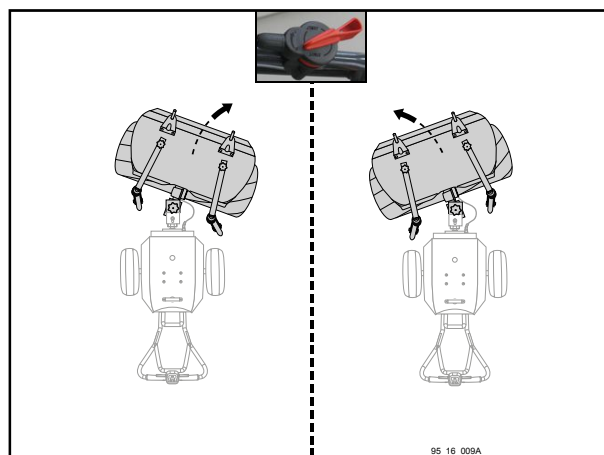
- Turn the tilt adjustment knob (14) counter-clockwise to adjust the tilt of the sweeper to the rear.



WORK DIRECTION

The sweeper has 3 working positions of the rotating brush:

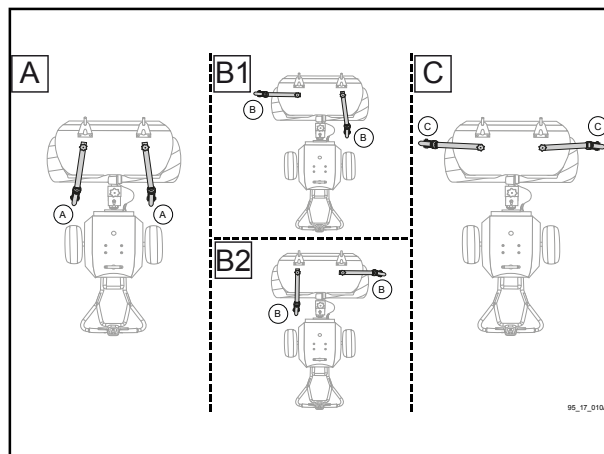
- Standard position (front): Debris is pushed to the front of the sweeper.
- Right position: Debris is moved to the right side of the sweeper (e.g. sweeping against a wall, curb, gutter etc.).
- Left position: Debris is moved to the left side of the sweeper (e.g. sweeping against a wall, curb, gutter etc.).
- Switch the direction switch (23) to position 'I' to unlock the central axis.
- Guide the tool to the left or right using "zero turn" or manually.
- Switch the direction switch (23) to position 'O' to lock the central axis.



DIRECTION OF THE SUPPORT WHEELS

The support wheels make it possible to stabilise the sweeper, especially when going over areas that vary in consistency (gutters, hollows, etc.). 3 positions available:

- Loosen the orientation knobs (13).
- Orient the support wheels (10) according to the floor type:
 - Position A = normal sweeping position (suitable for flat ground or for reverse travel).
 - Position B1 or B2 = sweeping position for paved roads or along a gutter (the support wheel is oriented in the lateral position in order to optimally "guide" the sweeper into the edge of the curb).
 - Position C = sweeping position for uneven floors (suitable for non-flat floors with depressions or slopes) / Brush storage position.
- Tighten the direction knobs (13) to lock the position.



MOVING WITH THE SWEEPER

Several controls can be used to make the sweeper move forwards, backwards, turn or activate/deactivate the turning of the rotating brush. These controls can either be used independently from each other or in combination.

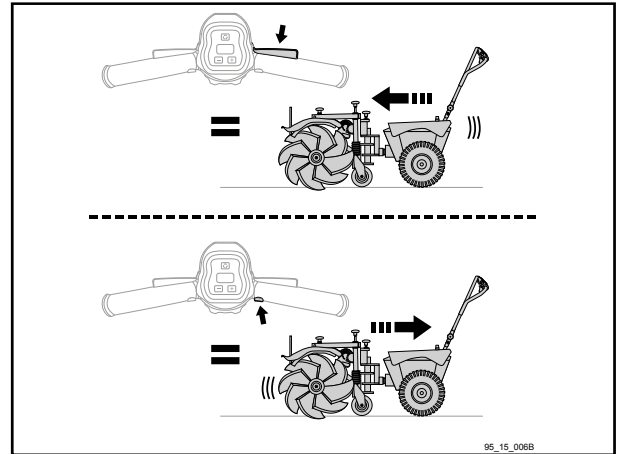
STEERING CONTROLS

Command 1: Forwards

- Press on the right trigger (16) and hold it down to move the sweeper forwards.

Command 2: Reverse

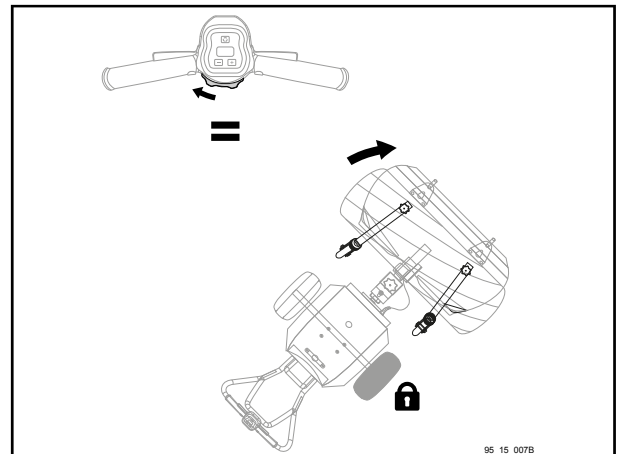
- Press on the 'right reverse' button (17) and hold it down to move the sweeper backwards.



- The speed at which the sweeper moves is progressive, i.e. the more the right trigger (16) is pressed down, the more the speed increases until you reach the set speed.
- You can use this control to move the sweeper since the brushes do not need to be turning in order to move forwards, backwards or to turn.

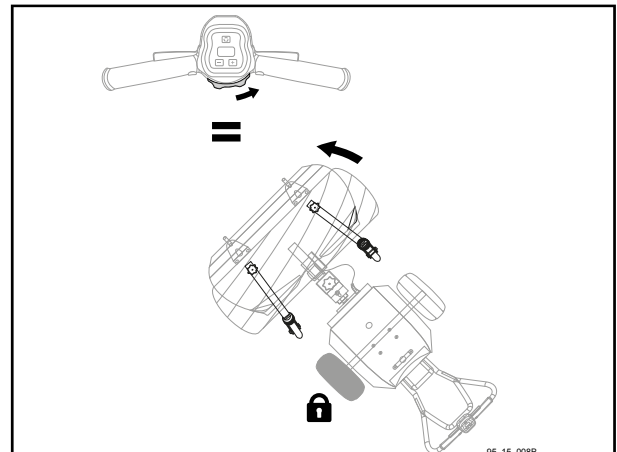
Command 3: Turning right

- Press the 'sweeper direction' button (19) to the left to make the sweeper rotate to the right.



Command 4: Turning left

- Press the 'sweeper direction' button (19) to the right to make the sweeper rotate to the left.



This command can be used while you are moving forward (right trigger (16) held down) or backwards (reverse button right (17) held down) to carry out, for example, a change in direction.

MOVING WITH THE SWEEPER

MOVING ON A SLOPE

- Take particular care when changing direction on sloping ground. Always find a stable position and hold the sweeper with both hands.
- Use extra caution on icy ground during snow removal operations. You could lose control of the sweeper and injure yourself.

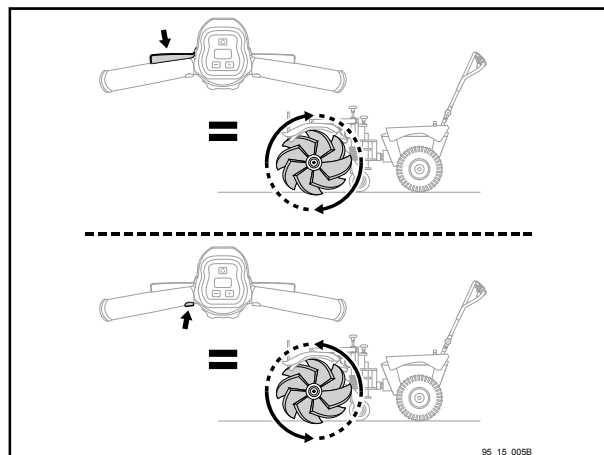
BRUSH ROTATION SPEED COMMAND

Command 5: clockwise rotation

- Press the left trigger (22) and hold down to activate the clockwise rotation of the rotary brush.

Command 6: Counter-clockwise rotation

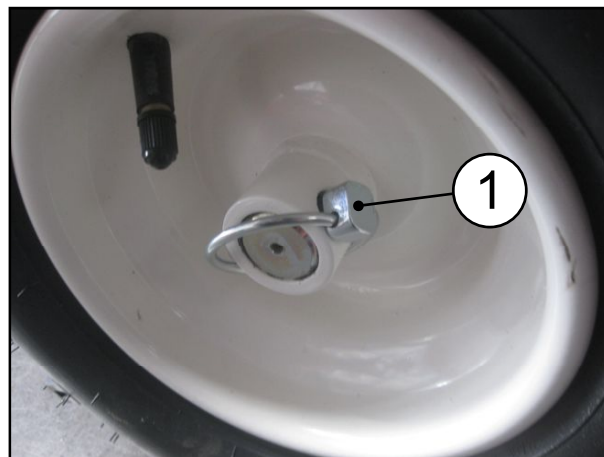
- Push the 'reverse left' button (21) and hold down to activate the counter-clockwise rotation of the rotary brush.



- The brush rotation speed setting via the control box (2).
- The rotating brush does not rotate if the control box (2) reads '000'.
- The speed of rotation of the brush in reverse is 100 rpm.

COUPLING THE WHEELS (USE WITH MOTOR)

- Position the wheel at the end of their drive shaft, opposite the pin hole.
- Install the pin (1).



UNCOUPLING THE WHEELS (USE WITHOUT MOTOR)

- Position the wheels until their drive shaft stops.
- Install the pin (1).



COMBINATION OF CONTROLS

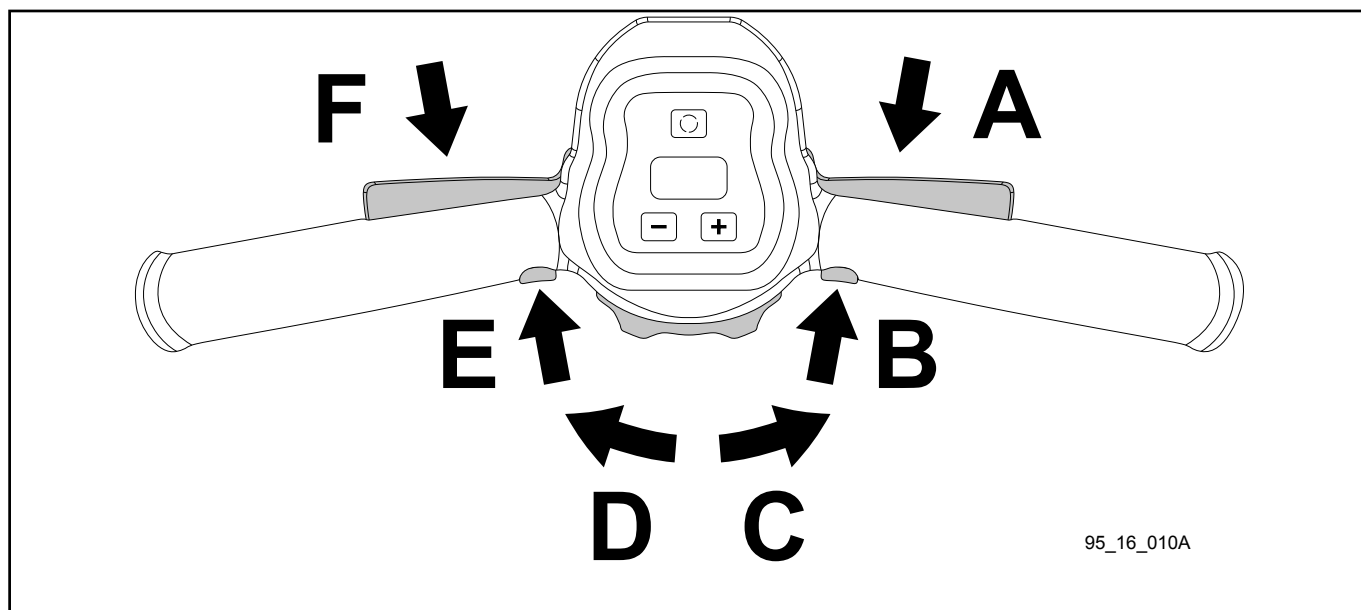
Some of the controls can be used in combination:

Orders

- Forwards + Turn left	<>	A + C
- Forwards + Turn right	<>	A + D
- Reverse + Turn left	<>	B + C
- Reverse + Turn right	<>	B + D
- Brush rotation* + Advance	<>	F + A
- Brush rotation* + Reverse	<>	F + A
- Brush rotation** + Advance	<>	E + A
- Brush rotation** + Reverse	<>	E + B
- Brush rotation* + Advance + Turn left	<>	F + A + C
- Brush rotation* + Advance + Turn right	<>	F + A + D
- Brush rotation** + Advance + Turn left	<>	E + A + C
- Brush rotation** + Advance + Turn right	<>	E + A + D
- Brush rotation* + Reverse + Turn left	<>	F + B + C
- Brush rotation* + Reverse + Turn right	<>	F + B + D
- Brush rotation** + Reverse + Turn left	<>	E + B + C
- Brush rotation** + Reverse + Turn right	<>	E + B + D

* Clockwise (seen from the left)

** Anticlockwise (seen from the left)



ADVICE FOR USE

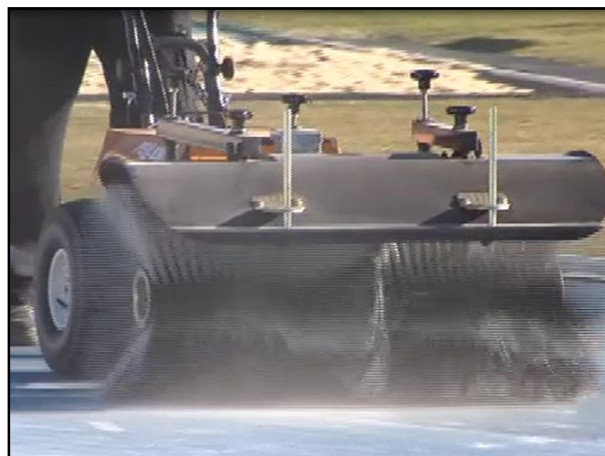
The *Cleanion* sweeper is a walk-behind sweeper powered by a rechargeable ULIB 700 or 1100 battery, offering it outstanding work autonomy. Its working speed and pressure are adjustable and visible on the LCD display. The *Cleanion* sweeper can perform different types of work: sweeping/clearing lots, roads or other hard and artificial surfaces. However, it is advised to be extra careful when using it on sloping ground and to avoid tipping the sweeper. After sweeping, the waste must be collected and processed if it is organic waste (leaves, branches etc.) or recycled in the case of ordinary waste.

WORKING WITH THE ROTARY BRUSH

The rotating brush allows for several types of sweeping jobs based on the type of ground surface.



- De-icing and clearing snow on snowy lots or roads.



- Dust removal and sweeping of lots, roads or other hard and artificial surfaces.

WORKING PRESSURE



ATTENTION: The working pressure is adjustable with the rotating brush tool only. Refer to "preliminary tool settings" to set the ground work pressure.

The working pressure depends on the type of work to be performed and the surface to be treated: Parks and gardens, gyms, parking lots, industrial sites etc.

For standard sweeping, the value displayed on the screen must be between P14 and P20 at 100 rpm.

OPTIONAL EQUIPMENT TO BE USED WITH THE ROTATING BRUSH

See installing optional equipment on the 14 page.



ADVICE FOR USE

WORKING WITH TOOLS OTHER THAN THE ROTATING BRUSH (OPTIONAL)

WORKING WITH THE SNOWPLOUGH BLADE

The snowplough blade is coupled in the same way as the rotating brush (see "Tool preparation" for coupling the snowplough blade).

Use the snowplough blade to clear snowy lots or roads.



Snow chains can be fitted to the summer wheels in order to have better stability during snow removal operations. It is preferable to use winter wheels.

WORKING WITH THE LEAF PUSHER

The leaf pusher is coupled in the same way as the rotating brush (refer to "Tool preparation" for coupling the leaf pusher).

Use the leaf pusher to clear leaves or to push other organic elements such as manure or hay.



MAINTENANCE FREQUENCY

Elements concerned	Operations	Frequency				Difficulty	Notes
		Prior to each use	After each use	Every 50 hours	When necessary		
General appearance	Visual inspection	X	X			1	
	Cleaning				X	1	
Handles / Triggers	Operation	X				1	
Hardware	Tightening			X		1	
Tools: Rotating brush/ Snowplough blade/Leaf pusher	Visual inspection	X	X			1	
	Cleaning				X	1	More frequent cleaning of the machine is recommended in snow mode (formation of frost/ice etc.), while in dust removal mode the machine can be cleaned as and when needed
	Operation	X				1	
	Hardware	X				1	Pay particular attention to the tightness of the axis of the rotating brush
	Greasing*				X	1	Regularly grease the tool shaft to facilitate its insertion into the sweeper as well as the various adjustment axes, if any
Battery	Please refer to the battery operating instructions						

*Universal grease

Difficulty level:

1 = Can be performed by the user

2 = To be performed by an approved distributor

USEFUL ADVICE FOR RISK FREE MAINTENANCE

Maintenance on the different parts of the sweeper is important, it will ensure the length of its service life.

- ⚠ ATTENTION:**
- Always disconnect the sweeper battery before carrying out any intervention.**
 - Always turn off and remove the battery before cleaning the sweeper with a water jet.**
 - Always use products that are certified for use with your sweeper.**
 - Do not use a high pressure cleaner when cleaning the tool.**
 - In the event of any problem, consult an authorised distributor.**

ROTARY BRUSH

MAINTENANCE OF THE ROTATING BRUSH

Clean the rotating brush after each sweeping session:

- If necessary, uncouple the rotating brush (see "Tool preparation").
- Remove waste/dust that has accumulated in the hairs of the rotary brush using a water jet.



- ⚠ Ⓢ WARNING:** Never use soap or solvents, such as (Trichloroethylene, white spirit or petrol, etc.) to clean the tool.

REPLACING THE ROTATING BRUSH

The rotating brush can be replaced if worn when changing the brush type.

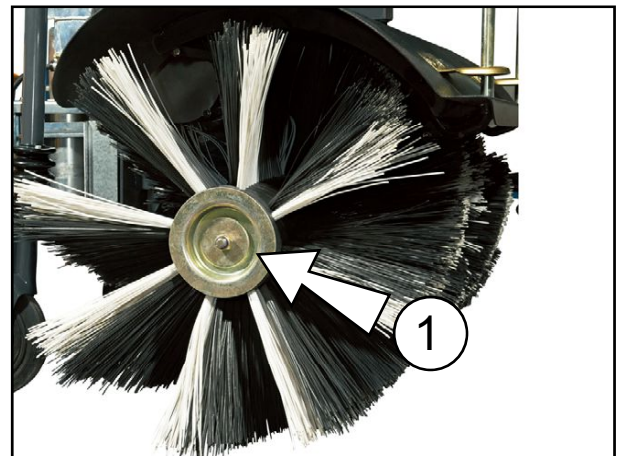
Tools: No. 19 wrench

1– Removing the rotating brush:

- Remove the assembly (1): nut, washer and the rotating brush holding cup.
- Detach and remove the rotary brush from the shaft on each side.

2– Mounting the rotating brush:

- Place a rotating brush on the shaft on each side.
- Ensure the correct direction of the rotating brush (black hairs above).
- Snap the brush into its housing.
- Install the assembly (1): Cup, washer and nut for retaining the rotating brush.
- Tighten the nut.



WHEELS

WHEEL MAINTENANCE

The sweeper's wheels are particularly susceptible to clogging. Dust and other residues stick to the mechanisms and ultimately impede the progress of the machine.

Clean the wheels after each sweeping session:

- Use a water jet to remove matter from the wheels.

Regularly check the pressure of the wheels:
1.5 bar

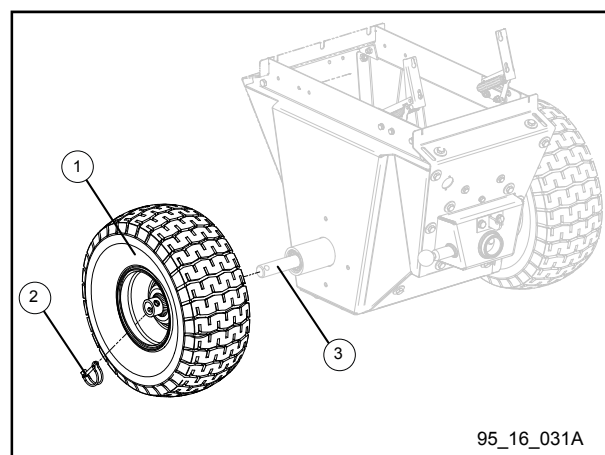


CHANGING WHEELS

The wheels of the sweeper can be dismantled in the event of wear or change of season.

1– Removing a wheel:

- Remove the pin (2) holding the wheel (1).
- Remove the wheel (1) from the drive shaft (3).



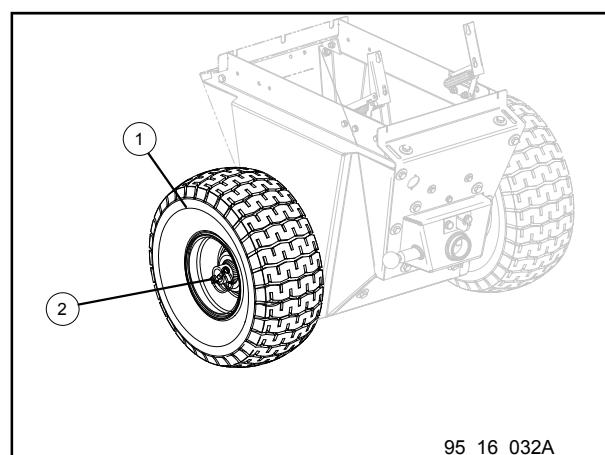
95_16_031A



ATTENTION: Avoid placing the machine on the floor when a wheel was removed. Place it on a protective wedge.

2– Mounting a wheel:

- Mount the wheel (1) onto the drive shaft.
- Install the pin (2) in its slot.
- Make sure the wheel tyre pressure (1) is correct (see the "Wheel maintenance" section for the value).

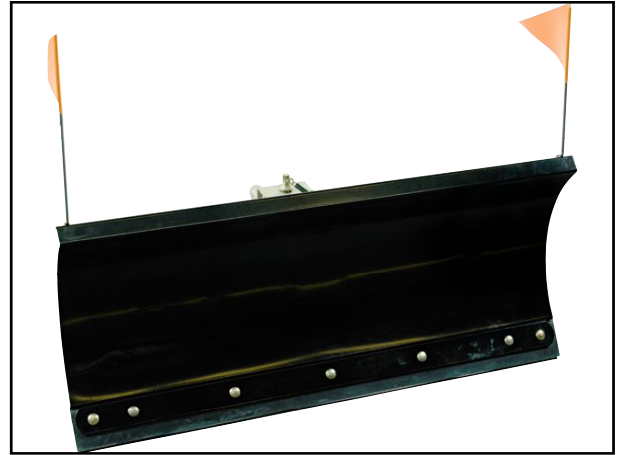
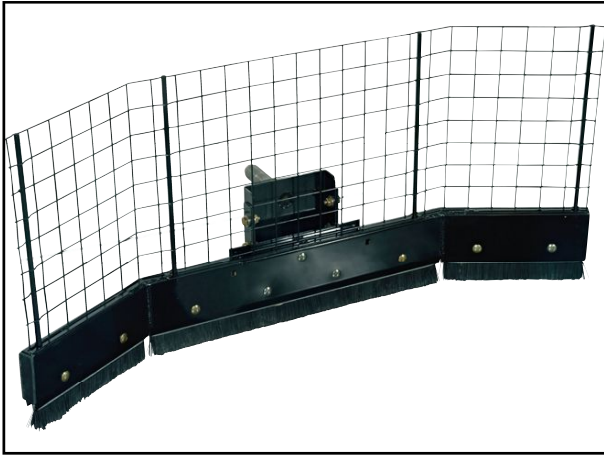


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MAINTENANCE / REPLACEMENT

SNOWPLOUGH BLADE AND LEAF PUSHER

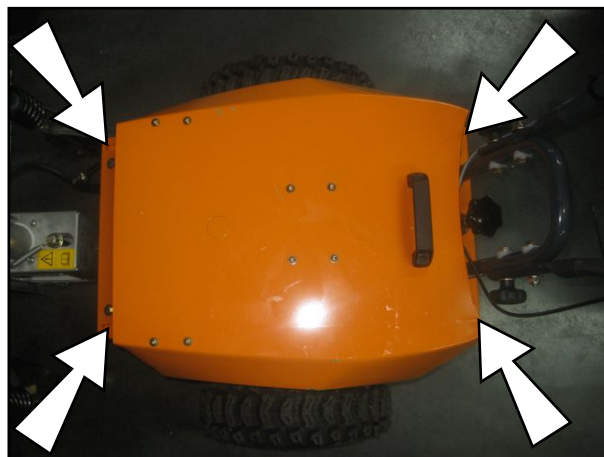
After use, tools should be thoroughly cleaned with a water jet and then dried



TRANSPORT / STORAGE

TRANSPORT

- Uncouple the tool from the sweeper (refer to the "tool preparation" section on the 13 page).
- Check that the battery is turned off with the switch turned to '0'.
- To reduce the sweeper's footprint during transport, adjust the height of the handlebar to a minimum and fold down the handlebar.
- Place straps at the locations provided at the front and rear of the sweeper to properly secure it during transport.



ATTENTION: Do not use the strapping locations to lift the machine.

STORAGE

- Uncouple the tool from the sweeper (refer to the "tool preparation" section on the 13 page).
- Check that the battery is turned off. The switch must be turned to '0' or the battery removed.
- Clean the sweeper and its tool to remove any residue.
- Protect the bellows of the support wheels (10) with silicone lubricant.
- Apply universal grease to the various adjustment shafts/guides: adjusting knob shaft (14), support wheel orientation knob shaft (13), handlebar adjustment knob shaft (6), wheel shafts and inside of the coupling housing.
- Make sure that the wheel pressure is correct (1.5 bar).
- To reduce the sweeper's footprint during storage, adjust the height of the handlebar to a minimum and fold down the handlebar.
- Store the sweeper and its various tools in a covered and dry place.
- Make sure that for the rotating brush tool, the support wheels (10) are in position A (see orientation of the support wheels on the 19 page).

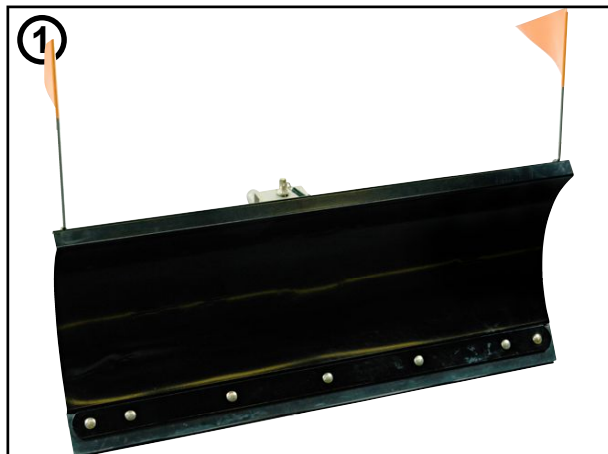


ATTENTION: Do not store the rotating brush directly against a surface, the hairs may deform over time.



Ⓒ NOTE:

Have your sweeper serviced every 200 hours or at least once a year. Always make sure the tool is clean and its battery is charged before storing it.



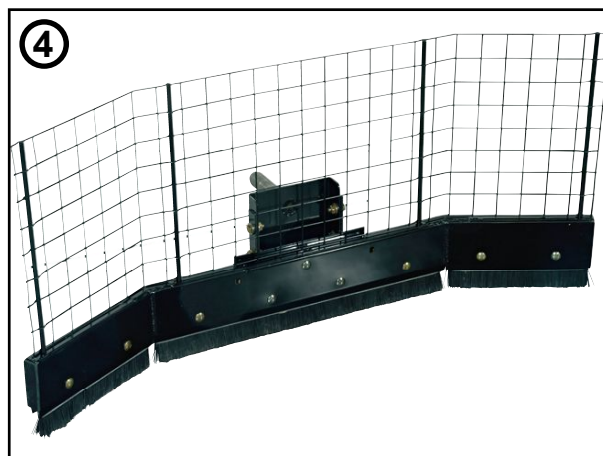
1– Snowplough blade



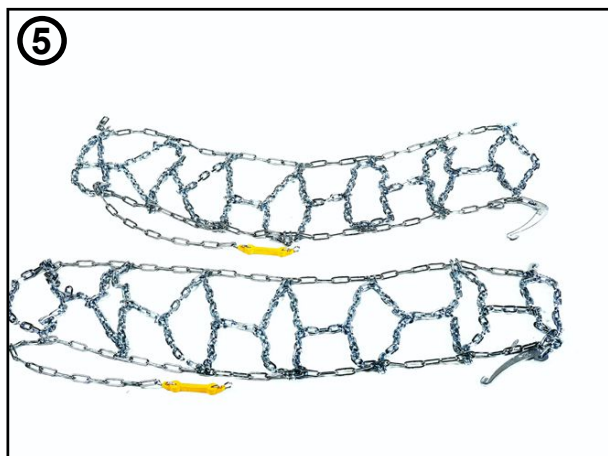
2– Anti-gravel mesh



3– Collecting bin



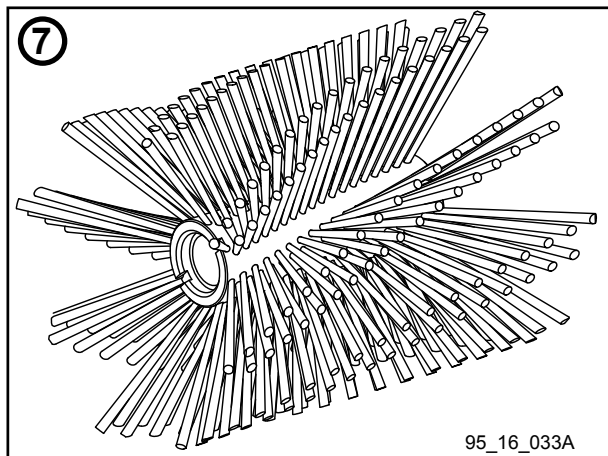
4– Leaf pusher



5– Chains



6– Summer wheels



7– Multi-usage brush

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Problem	Check	Probable cause	Possible action
Sweeper does not start/rotating brush is not turning/the wheel motors are not turning	The display is not powered	Battery is off	Switch the battery button to 'I'
		Battery discharged	Recharge the battery using the battery charger.
		Battery in standby after extended shut-down	Turn off the battery and then turn it back on.
		- Battery US - Battery with a grey/black connector	Change the battery
		Wrong connection with the battery	Check the power cable - Check the connections (tool and battery) - Clean them with compressed air if necessary - Repeat the operation if necessary
	The display is powered	- Rotation speed on '000' - Acceleration speed on 'A-0'	- Select a rotation speed > '000' - Select a rotation speed > 'A-0'
		Defective triggers	- Turn off the battery. - Clean the triggers with dry air and check that the triggers move freely and return to their initial position - Restart the battery
		Internal fault	Contact your approved distributor.
		Triggers dirty or stuck	Clean the triggers with dry air
		The machine settings are not correct (working pressure too high, tilt not parallel, wrong orientation of the support wheels etc.)	Refer to the different sweeper adjustment paragraphs on the 16 - 19 pages
Handling or controlling the sweeper is abnormal	The display is powered		

Problem	Check		Probable cause	Possible action
The sweeper works intermittently	The screen goes on and off		The On/Off switches are defective	Contact your approved distributor.
	The display is powered		Damaged power cord	Contact your approved distributor.
The sweeper stops	The display is powered	'HOT' is displayed on the screen	Sweeper is overheating	<ul style="list-style-type: none"> - Allow sweeper to cool down - Reduce the speed of the sweeper - Reduce the ground pressure - Clean the rotating brush
	The display is not powered		The battery is discharged	Recharge the battery using the battery charger.
The wheel motors do not rotate or one of the wheel motors is not turning	The display is powered	'HoT' is displayed on the screen	The wheel motor safety sensors signal too much effort	Allow sweeper to cool down: 'HoT' is displayed alternately with an incremental counter (1-2-3-4-5-6-7-8-9) until the motors have been switched off and then a decremental counter is displayed(9-8-7-6-5-4-3-2-1-0) when the motors have switched off. The sweeper can be started again once this display disappears.
	The display is not powered		The battery is discharged	Recharge the battery using the battery charger.
The coupling hook is not engaging in the grommet of the tool	The hook is not properly secured		The screws are loosened due to vibration	Tighten the coupling hook attachment screws
	The lock-nut is loose		The grommet setting has become too short or too long	Adjust the length of the grommet by screwing or unscrewing it a few turns, then tighten the lock-nut
	The orientation switch does not engage properly		Defect of the internal starter system	Contact your approved distributor.
The battery beeps before shutting off	1 long beep + 1 short beep		Surge alarm	Turn off the battery and then turn it back on.
	1 long beep + 2 short beeps		Sweeper high temperature alarm	Allow sweeper to cool down
	1 long beep + 3 short beeps		Over voltage or under voltage alarm	Battery flat or damaged
	1 long beep + 4 short beeps		Blockage safety alarm	Switch off the battery/Remove the elements hindering the rotating brush/Restart the battery
	1 long beep + 5 short beeps		Motor alarm	Contact your approved distributor.
	1 long beep + 6 short beeps		Trigger alarm	Damaged handlebar cable Contact your approved distributor.

I. Legal warranty

A. Warranty against latent defects

Apart from the commercial warranty provided for under Article II, Article 1641 of the Civil Code provides that "the seller is bound to a warranty on account of latent defects of the object sold which render it unfit for the use for which it was intended, or which would impair said use to the extent that the buyer would not have acquired it, or would only have given a lesser price for it, had he known of them".

Article 1648 of the Civil Code "The action resulting from latent defects must be brought by the purchaser within two years after the discovery of the defect. "

B. Legal warranty of conformity

Article L.217-4 of the Consumer Code "The seller delivers goods in conformity with the contract and is liable for defects of conformity existing upon delivery.

The seller is also liable for any lack of compliance resulting from the packaging, assembly or installation instructions whenever its contractual liability is engaged in this regard or the latter are carried out under its responsibility

Article L.217-5 of the Consumer Code "The goods are comply with the contract:

1) If they are suitable for the purpose usually expected of similar goods and, where applicable:

- If it matches the description given by the seller and possess the qualities that were presented to the buyer in the form of a sample or model;

- If it has the qualities that a buyer can reasonably expect given the public statements made by the seller, the producer or its representative, especially in advertising or labelling;

2. Or, if it has the characteristics defined by mutual agreement of the parties or is fit for any particular purpose that the buyer made known to the seller and that the latter accepted.

Article L.217-12 of the Consumer Code "legal action resulting from lack of conformity lapses two years after delivery of the goods".

II. Pellenc Commercial Warranty

A. Contents

1. General Information

In addition to legal warranties, client users benefit from the commercial warranty on PELLENC products covering the exchange and replacement of parts recognised out of use, caused by machining defects, assembly defects or material defects, whatever the cause.

The warranty forms an inseparable whole with the product sold by PELLENC.

2. Spare Parts

The commercial warranty also covers original PELLENC spare parts, excluding labour and to the exclusion of certain parts of each product provided at delivery.

B. Duration of the warranty

1. General Information

PELLENC products are guaranteed under the commercial warranty as from delivery to the customer for a period of two (2) years for products connected to a PELLENC battery, and for a period of one (1) year for other PELLENC products.

2. Spare Parts

PELLENC spare parts replaced under the product warranty are guaranteed under the commercial warranty as from delivery of the PELLENC product to the customer for a period of two (2) years for products connected to a PELLENC battery, and for a period of one (1) year for other PELLENC products.

In the case of products connected to a Pellenc battery, parts that are replaced under the product warranty after the 12th month of use, are covered for a period of one (1) year.

C. Warranty exclusions

Excluded from the commercial warranty are products that have been subject to abnormal use, or were used under conditions and for purposes other than those for which they were manufactured, especially in the case of non-compliance with conditions stipulated in this user manual.

It does not apply in case of shock, fall, neglect, lack of supervision or maintenance or in case of transformation of the product. Also excluded from the warranty are products that have been subject to tampering, alteration or modification by the client user.

Wear parts and/or consumables cannot be covered by the warranty.

III. Implementation of the commercial warranty

1. Product commissioning and commissioning declaration

The DISTRIBUTOR undertakes to complete the computer commissioning declaration form, no later than eight days after the delivery of the property to the user customer, in order to activate the latter on the www.pellenc.com website under "warranties and training" in the "extranet" menu, using the identifier previously provided to them by PELLENC.

Failing that, commissioning declaration will not be effective and implementation of the PELLENC commercial warranty will not occur. As a consequence thereof, the DISTRIBUTOR must ensure the financial burden of its intervention under the warranty without being able to pass on the cost to the client user.

The DISTRIBUTOR shall also undertake to complete the warranty card or the certificate of warranty and commissioning for self-propelled equipment provided with the product after having the client user sign and date it.

IV. Paid after-sales service

A. General Information

Malfunctions, breakdowns, breakages resulting from misuse, neglect or improper maintenance by the client user as well as malfunctions resulting from normal wear of the product are subject to the payment of after-sales service, even during the period of the legal and commercial warranty. After-sales service repairs that fall outside of the legal and commercial warranty also include maintenance, adjustments, diagnostics of all types, and cleaning without the present list being exhaustive.

B. Wear parts and consumables

Wear parts and consumables also fall within the after-sales service.

C. Spare Parts

Paid after-sales service also covers original PELLENC spare parts, excluding labour and outside the legal and commercial warranty period.

In case of replacement of original PELLENC spare parts in the context of after-sales service, said latter are covered by a warranty of one year as from the installation date.

 NEVER ATTEMPT TO OPEN THE SWEEPER OR BATTERY UNDER PENALTY OF CANCELLATION OF THE WARRANTY.
CONTACT YOUR AUTHORISED REPAIR PERSON.

PATENTED EQUIPMENT

- PELLENC reserves the right to make any modifications to the design and manufacture deemed necessary to perfect its equipment.

Roger PELLENC
Chief Executive Officer



"EC" STATEMENT OF COMPLIANCE

(FOR EUROPE ONLY)

MANUFACTURER	PELLENC SA
ADDRESS	QUARTIER NOTRE-DAME ROUTE DE CAVAILLON - CS 10047 84122 PERTUIS CEDEX (FRANCE)
PERSON/ENTITY AUTHORISED TO COMPILE THE TECHNICAL DOSSIER	PELLENC SA
ADDRESS	QUARTIER NOTRE-DAME ROUTE DE CAVAILLON - CS 10047 84122 PERTUIS CEDEX (FRANCE)

WE HEREBY DECLARE THAT, FOR THE MACHINE HEREINAFTER REFERRED TO AS:

GENERIC DENOMINATION	SWEEPER
FUNCTION	SWEEPING FLOORS
COMMERCIAL NAME	CLEANION
TYPE	CLEANION
MODEL	
SERIAL No.	95R00001 - 95R49999 95S00001 - 95S49999 95T00001 - 95T49999

COMPLIES WITH THE RELEVANT PROVISIONS OF THE MACHINERY DIRECTIVE 2006/42/EC.

IS IN CONFORMITY WITH THE FOLLOWING OTHER DIRECTIVES AND/OR RELEVANT PROVISIONS:

- 2014/30/EU EMC Directive
- 2003/10/EC Noise Directive
- 2002/44/EC Vibrations Directive
- 2011/65/EU ROHS Directive
- 1907/2006 REACH Regulation
- 2012/19/EU WEEE Directive

THE FOLLOWING HARMONIZED EUROPEAN STANDARDS WERE USED:

- EN ISO 12100:2010
- EN 294:1992

Sound Level at the maximum operating rating

Symbol	Value	Unit	Reference	Comment
L_{WAm}	70	dB(A)	1 pW	Measured sound power level
L_{WAg}	87	dB(A)	1 pW	Guaranteed sound power level

The recording of the measured sound power level and of the guaranteed sound power level has been performed according to a procedure in accordance with directive 2000/14/EC appendix V.

CONCLUDED AT PERTUIS, DATED 02/05/2017

JEAN MARC GIALIS

Deputy Managing Director



