

**ENG**

Translation of the original operating instructions manual



## SOIL CULTIVATOR CULTIVION

Operating instructions

58\_80347-R  
10/2021

READ THE USER GUIDE CAREFULLY BEFORE USE



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## 1. INTRODUCTION

Dear Customer,

Thank you for purchasing your Soil Cultivator Cultivion. Properly used and maintained, this equipment will give you years of satisfaction.



### **Warning**

Your machine contains numerous recoverable or recyclable materials. Return it to your dealer or, failing this, to an approved servicing centre to be treated.



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



### **Warning**

It is imperative that you read through the ENTIRE user's manual guide before using or servicing the tool. Always comply with the instructions and illustrations provided in the user's manual.

Throughout the user's manual guide you will find advisory notes and information entitled: NOTE, IMPORTANT, ATTENTION and WARNING.

Points marked "NOTE" indicate additional information.

Points marked "IMPORTANT" warn the user of a potential risk for the equipment.

Points marked "ATTENTION" warn the user of a potentially hazardous situations which if not avoided may result in minor injuries.

Points marked "WARNING" warn the user of a potentially hazardous situation which if not avoided may result in serious injury or death.

The warning  indicates that damage resulting from failure to comply with the procedures and instructions is not covered by the warranty and the owner will be liable for any 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 Section 2.5, "Safety signage" for the location diagram of the safety stickers affixed to the tool.

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## 2. SAFETY

### 2.1. INTENDED USAGE

- The Cultivion is a tool for working in soil only. It is used for weeding, aerating, cultivating and mixing fertiliser with the soil.
- The Cultivion can also be used to dig furrows using the appropriate work tool attachment (ref. 83849).
- In addition the Cultivion can be used to clean walkways thanks to the sharp side faces of its blade.
- The PELENC company accepts no responsibility for any damage caused by improper or unspecified use different from its original intention.
- The company PELENC is also not responsible for any damage caused by the use of parts or accessories not listed in this guide.

### 2.2. GENERAL SAFETY WARNINGS FOR THE TOOL



#### **Warning**

**Read all safety warnings and all instructions.** Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

#### **Note**

**Save all warnings and instructions for future reference.**

The term "power tool" in the safety warnings refers to your battery-powered electric tool (without power cord).

#### 2.2.1. WORK AREA SAFETY

1. **Keep the work area clean and well lit.** Cluttered or dark areas invite accidents.
2. **Do not operate power tools in an explosive atmosphere, for example in the presence of flammable liquids, gases or dust.** Power tools create sparks, which may ignite the dust or fumes.
3. **Keep children and bystanders away while operating the power tool.** Distractions can cause you to lose control of the tool.

#### 2.2.2. ELECTRICAL SAFETY

1. **The power tool connector must be adapted to the socket. Never modify the connector in any way whatsoever. Do not use adapter plugs with earthed (grounded) power tools.** Unmodified plugs and suitable sockets reduce the risk of electric shock.
2. **Avoid contact with earthed surfaces such as pipes, radiators, cookers, and refrigerators.** There is an increased risk of electric shock if your body is in direct contact with the ground.
3. **Do not expose power tools to rain or damp conditions.** The entry of water into a power tool increases the risk of electric shock.
4. **Do not mishandle the power cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges and moving parts.** Damaged or entangled cords increase the risk of electric shock.
5. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
6. **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

### 2.2.3. PERSONAL SAFETY

1. **Stay alert, watch what you are doing, and use common sense when operating the power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention when using a power tool can result in serious personal injury.
2. **Use personal protective equipment. Always wear eye protection.** Safety equipment such as dust masks, non-slip safety shoes, helmets, or ear protection used at the appropriate times reduces injuries.
3. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
4. **Remove any adjusting wrench before switching the electric tool on.** A wrench left attached to a rotating part can cause injury.
5. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
6. **Dress appropriately. Do not wear loose clothing or jewellery. Keep hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can get caught in moving parts.
7. **If devices are provided for connecting dust extraction and collection equipment, ensure that these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

### 2.2.4. POWER TOOL USE AND CARE

1. **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
2. **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
3. **Unplug the tool from the socket or remove the battery (if possible) before any adjustment, change of accessory or storage.** These preventive safety measures reduce the risk of accidentally starting the power tool.
4. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
5. **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
6. **Keep the cutting elements sharp and clean.** Properly maintained cutting tools with sharp cutting elements are less likely to jam and are easier to control.
7. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

### 2.2.5. BATTERY TOOL USE AND CARE

1. **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
2. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
3. **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
4. **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, wash away with water. If liquid contacts eyes, seek additional medical help.** Liquid ejected from the battery may cause irritation or burns.

### 2.2.6. SERVICE

1. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

**2.2.7. TOOL'S END OF LIFE MANAGEMENT**

1. When the tool reaches the end of its life, PELLENC keeps the end of life sheet of the equipment at disposal. The end of life sheet provides instructions for safely removing components.

**2.3. SAFETY INSTRUCTIONS FOR THE SOIL CULTIVATOR CULTIVION**

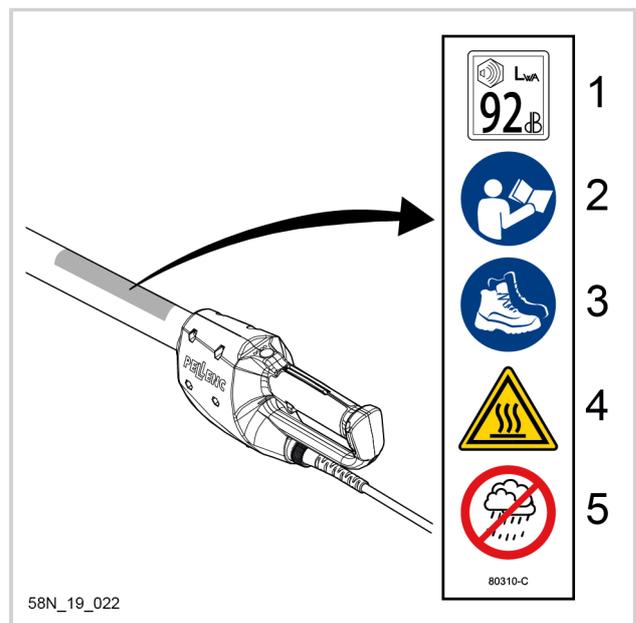
1. Clear your work area before starting work.
2. Make sure that the Cultivion does not come into contact with anything other than soil and plants.
3. Do not use the Cultivion to dig very hard, stony soil or near thick roots.
4. Position yourself correctly to prevent accidents.
5. Keep people away from the machine when starting and operating the machine.
6. Never modify the connector in any way whatsoever.
7. The aluminium of the pole conducts electricity. Always keep the tool away from electrical lines, telephone lines, and other sources of electricity. Manipulate the tool by holding the safety handles.
8. THIS TOOL MAY CAUSE SEVERE INJURIES. Read the operating instructions manual carefully to learn about the proper handling, operation, maintenance, start-up and stopping of the tool. Familiarize yourself with all its controls and the proper use of the tool.
9. Use personal safety equipment. Always wear safety footwear.
10. Make sure the tool head attachment is not in contact with any object before starting the motor.
11. When in use, the electric motor of the tool may heat up (risk of burns). Avoid contact with skin, clothing or any flammable products (risk of explosion) during and after use.
12. No one other than the operator is authorized within a 3 metre radius.

**2.4. SAFETY MEASURES ASSOCIATED WITH PELLENC CHARGER AND BATTERY USE**

Refer to the relevant battery instructions of the PELLENC tool.

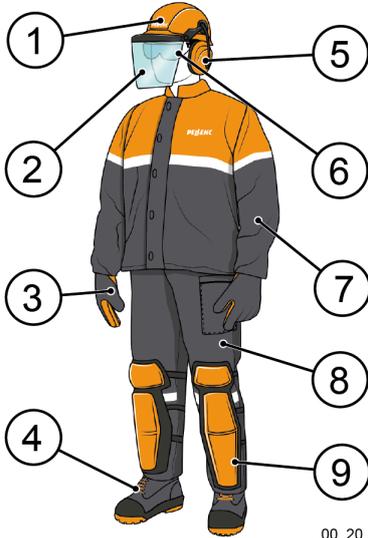
**2.5. SAFETY SIGNAGE**

1. L<sub>WA</sub> sound power level guaranteed
2. Read the operating instructions manual
3. Wearing of safety boots is obligatory
4. Risk of burns (motor - cooling radiator of the electronic circuit board).
5. Do not expose to rain



**2.6. PERSONAL PROTECTION EQUIPMENT**

	Equipment	Wearing of	Description
1	Safety helmet	/	/
2	Protective visor	/	/
3	Protective gloves	Recommended	Wear hand protection especially when working on the cutting tool.
4	Robust, non-slip safety shoes	Mandatory	When operating the machine, always wear non-slip safety shoes. Do not operate the machine in bare feet or with sandals.
5	Ear protection	Recommended	Wear approved ear protectors with sufficient noise attenuating effect.
6	Safety goggles	Recommended	Wear approved eye protection.
7	Safety jacket or over-sleeves	/	/
8	Work trousers	Mandatory	Always wear clothing that covers the operator's legs when the machine is in operation.
9	Shin pads	/	/

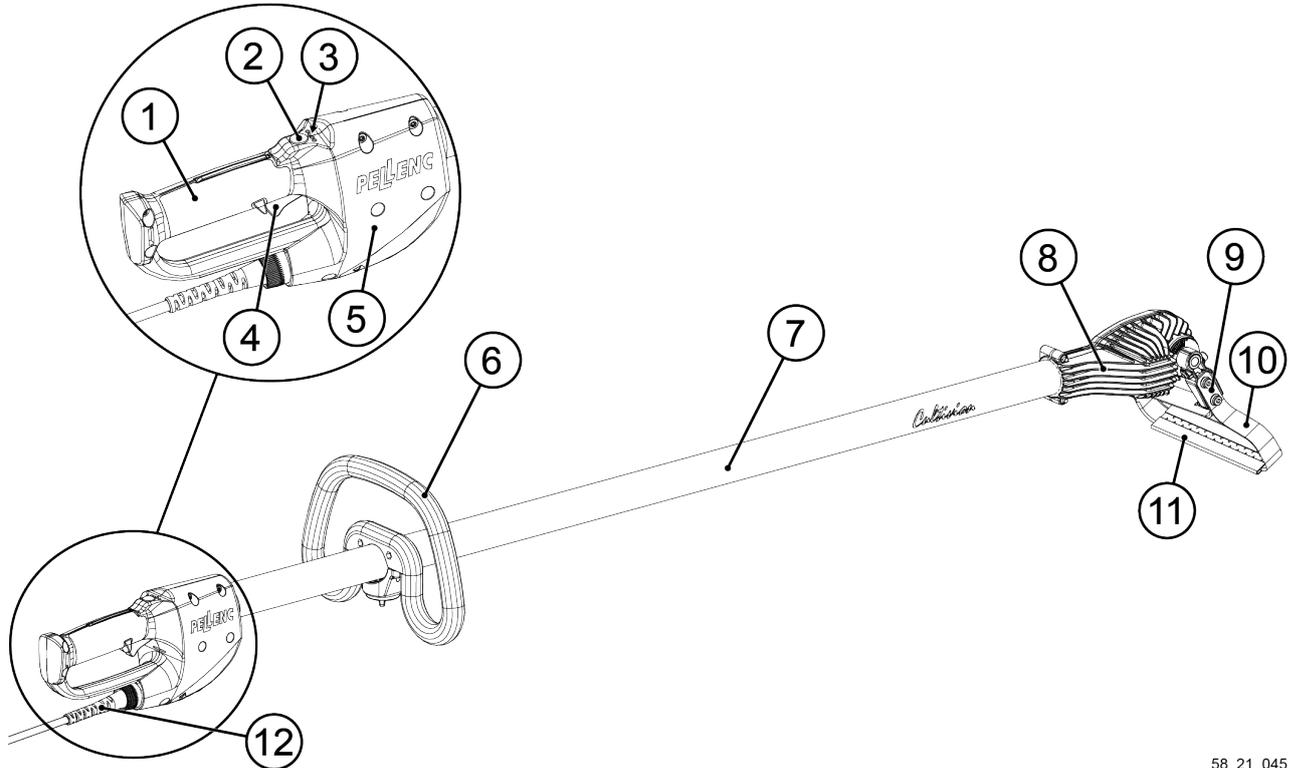


## 2.7. GOOD PRACTICES FOR SAFE WORKING

- Always hold the rear handle of the Cultivion with your right hand, and the front handle with your left hand.
- Keep your left arm straight for better control.
- Use PELLENC working tools.
- Maintain working tools in good operating condition.
- Remain in a steady position.
- Keep feet away from the tool head when working.
- Only work in soil with your Soil Cultivator.

**3. DESCRIPTION AND TECHNICAL CHARACTERISTICS**

**3.1. DESCRIPTION OF THE TOOL**



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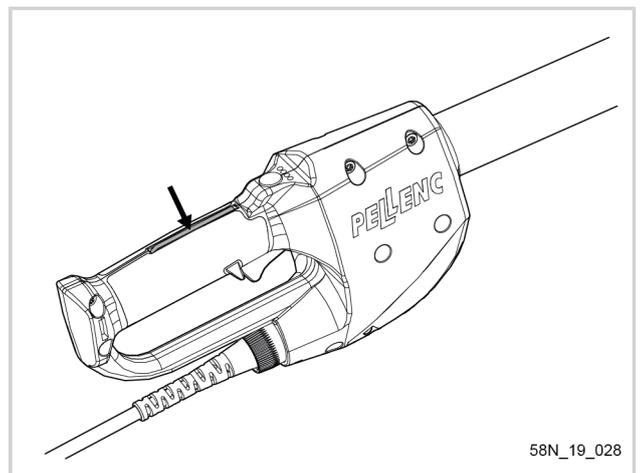
- 1. Rear handle
- 2. Speed selector (4 speeds)
- 3. LED power and speed indicator
- 4. Drive trigger
- 5. Electronic circuit board cooling radiator
- 6. Front handle

- 7. Pole
- 8. Head
- 9. Blade mounting assembly
- 10. Weeding blade
- 11. Joints clip
- 12. Power cord

**Note**

The handle of your Soil Cultivator Cultivion is common to several different PELENC tools. The part shown opposite is a safety button locked in the pressed position.

No action on your part is necessary.



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### 3.2. CONTENTS OF THE KIT

Check that the box contains the following items:

Name	reference
The Soil Cultivator Cultivion	79775
One 22 cm weeding blade + clip joints	84125
A front handle assembly	73861
A blade mounting part	113568
A long 5 Allen key	64550
A bag of screws and bolts	116693
A power cord	63453
An operating instructions manual	80347
A marketing flyer	117927
Warranty card	48642

### 3.3. TECHNICAL FEATURES

#### 3.3.1. GENERAL CHARACTERISTICS OF THE TOOL

Model	CULTIVION
Power	380 W
Tool voltage	43.2V
Weight	3,100 g
Dimensions (l x w x h)	1710 x 400 x 300 mm
Width of work tool	depending on the model
Oscillation speed of working tool head	13 to 15 Hz
Battery life	According to use and battery type

#### 3.3.2. VIBRATION EMISSION VALUES AND SOUND PRESSURE LEVELS

Determination of the noise levels and vibration rates is based on the operating conditions at the nominal maximum speed.

Values defined according to acoustic measurement standards NF EN ISO 11201 and NF EN ISO 3744.

	Minimum speed (1)	Maximum speed (4)
Maximum weighted sound pressure level A (ref. 20 µPa) at the user's position (uncertainty of K = 2.5 dB(A))	L <sub>pA</sub> = 75 dB(A)	L <sub>pA</sub> = 75 dB(A)
Weighted peak sound pressure level C (ref. 20 µPa) at the user's position	L <sub>pC</sub> < 130 dB(C)	

Symbol	Value	Unit	Reference	Remark
L <sub>wam</sub>	91	dB(A)	1 pW	Measured sound power level
L <sub>wag</sub>	92	dB(A)	1 pW	Guaranteed sound power level

The measured sound level and the guaranteed sound power level were measured according to a procedure in accordance with Directive 2000/14 / EC Annex V.

CULTIVION soil cultivator with 22 cm weeding blade	Speed 1 (705 strokes/min)	Speed 4 (885 strokes/ min)
Front handle,	10.93 m/s <sup>2</sup>	16.47 m/s <sup>2</sup>
Rear handle,	7.94 m/s <sup>2</sup>	11.38 m/s <sup>2</sup>
Measurement uncertainty, K	1,5	1,5

Vibration emission value according to EN ISO 22867, EN 50260-1 and EN 60745-1.



### **Warning**

Vibrations and noise emissions during actual use of the machine may differ from the total declared value, depending on how the machine is used.

It is necessary to identify safety measures to protect the operator. The tool, due to its operation, emits significant vibrations. The user must therefore adapt the frequency and time of daily use of the tool accordingly.

## 4. COMMISSIONING

**Caution**

Before any maintenance intervention on the tool:

1. Check that the battery is turned off. Depending on the battery model, turn off either via the push button or via the on/off switch (stop position is "0") located on the battery.
2. Disconnect the power supply cord from the battery.

For more information, refer to the user manual supplied with the battery.

## 4.1. MOUNTING/DISMOUNTING THE FRONT HANDLE

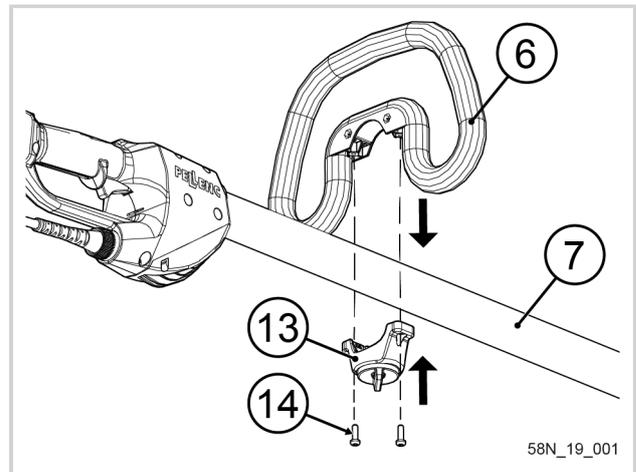
**Mounting**

1. Fit the front handle (6) onto the pole (7).

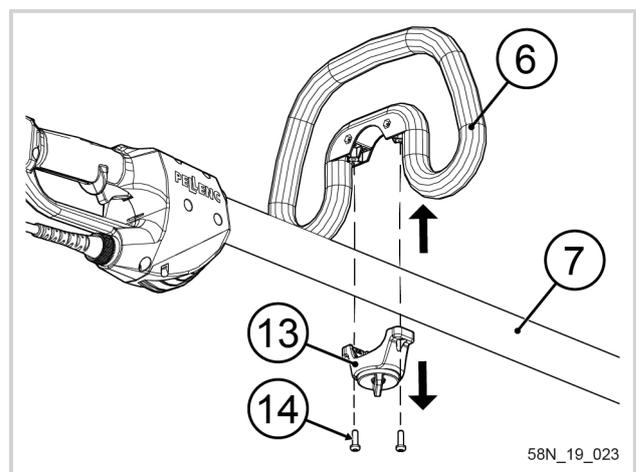
**Note**

To obtain a comfortable position for the user, it is necessary to adjust the position of the front handle (6) on the pole (7).

2. Ensure that the adjustment knob (13) is unscrewed.
3. Fit adjustment thumbwheel wheel (13) on the pole (7).
4. Screw in the 2 screws (14) using a Torx 25 screwdriver.
5. Lock the adjustment thumbwheel (13) to block the position of the front handle (6) on the tool.

**Dismounting**

1. Unscrew the adjustment thumbwheel (13) of the front handle (6).
2. Remove the 2 screws (14) a Torx 25 screwdriver.
3. Remove the front handle of the tool (6).
4. Remove the adjustment thumbwheel (13).



## 4.2. FITTING THE TOOL HEAD

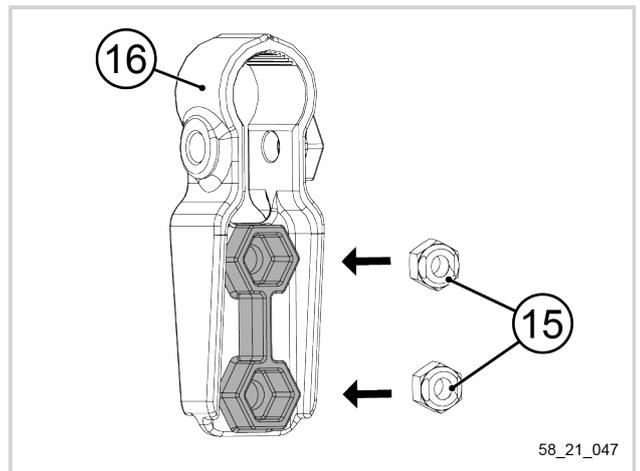


### **Caution**

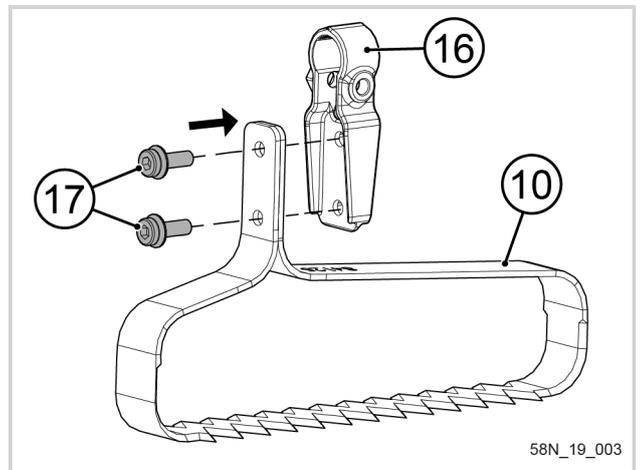
Always wear protective gloves when handling the tool.

### 4.2.1. MOUNTING THE BLADE ASSEMBLY

1. Insert the two nuts (15) in the spaces provided in the mounting part (16).



2. Position the weeding blade (10) on the mounting part (16).
3. Fit the tightening screws (17).
4. Tighten the screws (17) using a 5 mm hex socket and a torque wrench.



### **Important**

Tightening torque: 6 N.m

### **Important**

Ⓢ Never work with the tightening screws (17) loosened.

### **Note**

The procedure is identical for all blade models. Only the weeding blade is shown here.

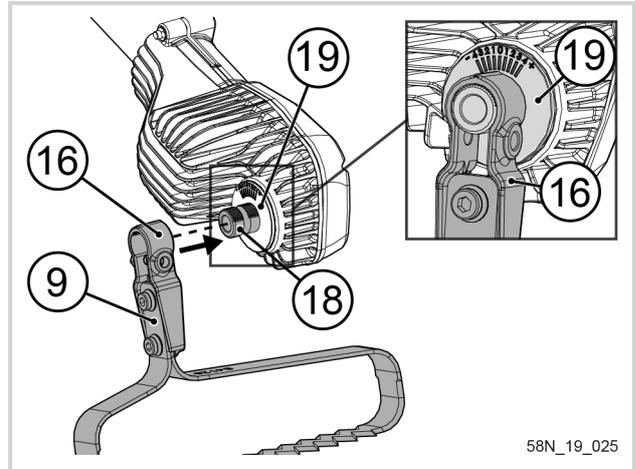
**4.2.2. FITTING THE BLADE MOUNTING ASSEMBLY ONTO THE TOOL**

1. Once fitted together, position the blade mounting assembly (9) on the shaft (18), aligning the mark on the mounting part (16) with the "0" mark on the head casing (19).

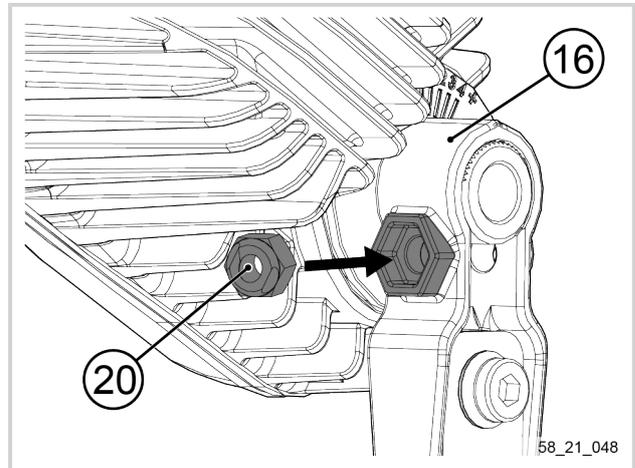
**Note**

The head of the machine has a graduated rotating shaft from -4 to +4, passing through a 0 position.

For further information on how to adjust the working tool head position, see pages Section 5.7, "Adjusting the tool head tilting positions".



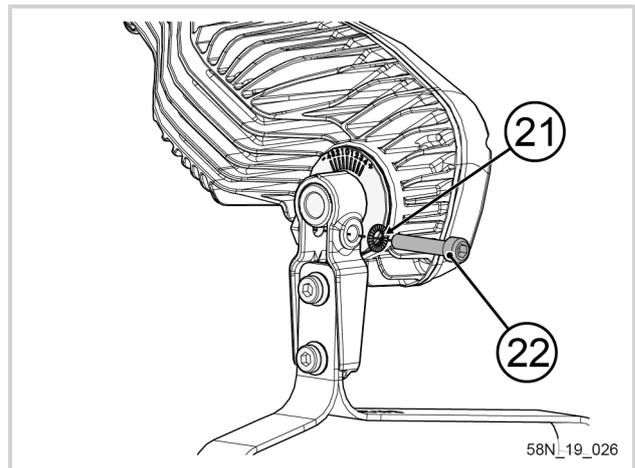
2. Place the nut (20) in the position provided on the mounting part (16).



3. Fit the washer (21) and screw (22).
4. Tighten the screw (22) using a 5 mm hex socket and a torque wrench.

**Important**

Tightening torque: 12 N.m



**Important**

Ⓢ Do not forget the nut (20) and the washer (21) during assembly.

**Important**

Ⓢ Never work with the tightening screws (17) loosened.

### 4.3. FITTING THE BATTERY ON THE HARNESS

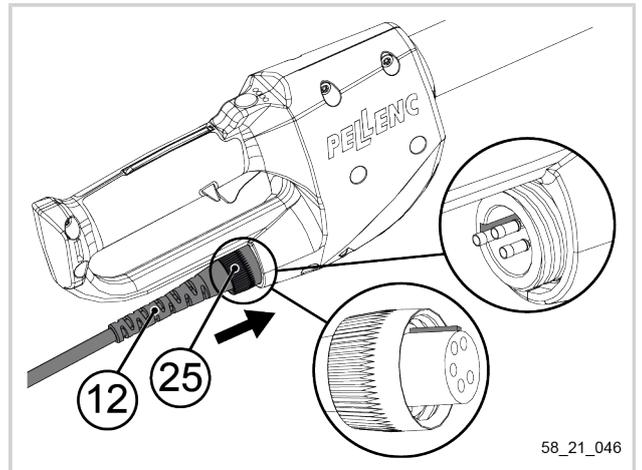
To mount the battery on your harness, refer to the mounting instructions provided with your harness.

#### **Important**

After mounting, the battery must be solidly attached and secured on your harness. If this is not the case then the mounting needs to be re-checked.

### 4.4. CONNECTING POWER CORD TO THE TOOL

1. Align the power cord key marker (12) with the notch in the rear handle connector.
2. Connect the power cord (12) to the connector on the rear handle.
3. Tighten the tightening ring (25) of the power cord (12).
4. Ensure that the power cord (12) is properly connected.



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**4.5. CONNECTING PELENC BATTERIES TO THE TOOL**

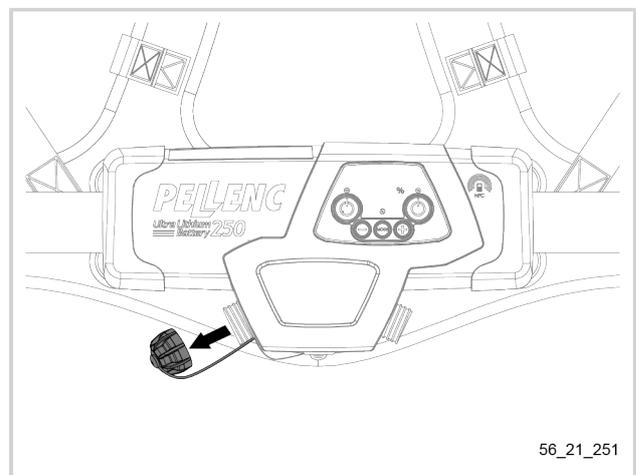
**Important**

Always check the remaining battery-life before use. If necessary, recharge the battery using the charger.

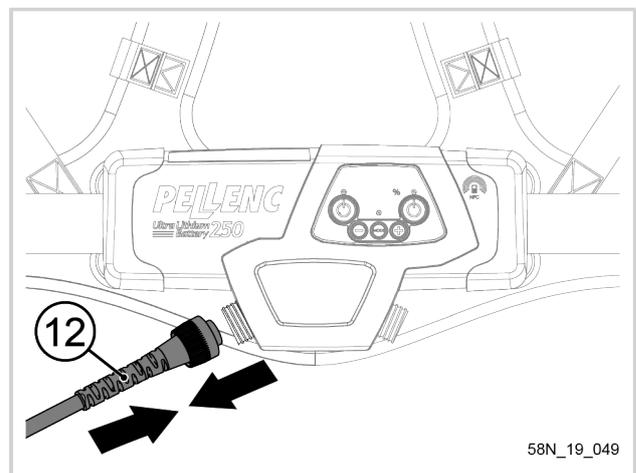
To prolong the life of the connectors, it is advisable to protect them when they are disconnected. Avoid leaving the connectors in contact with abrasive or dirty surfaces, or subjecting them to major impacts (falls).

**4.5.1. 250 BATTERY**

1. Remove the battery connector cap.

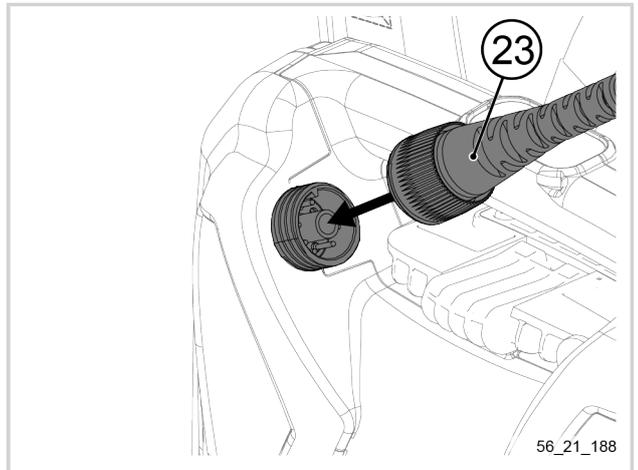


1. Remove the battery connector cap.
2. Connect the power cord (12) of the Soil Cultivator to the connector on the battery.
3. Tighten the power cord tightening ring (12).
4. Ensure that the power cord (12) is properly connected.

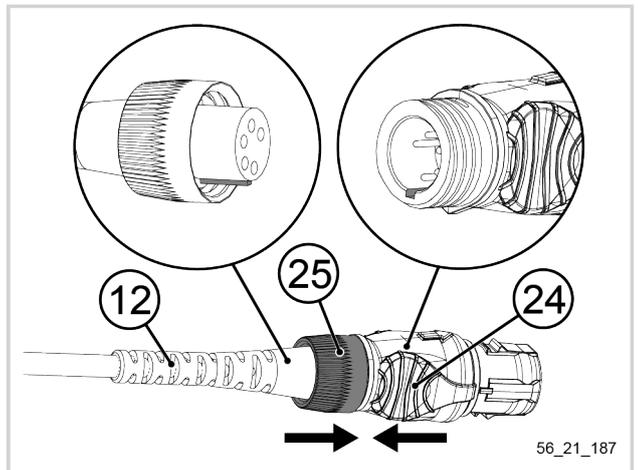


**4.5.2. 750 / 1200 / 1500 ULIB BATTERIES**

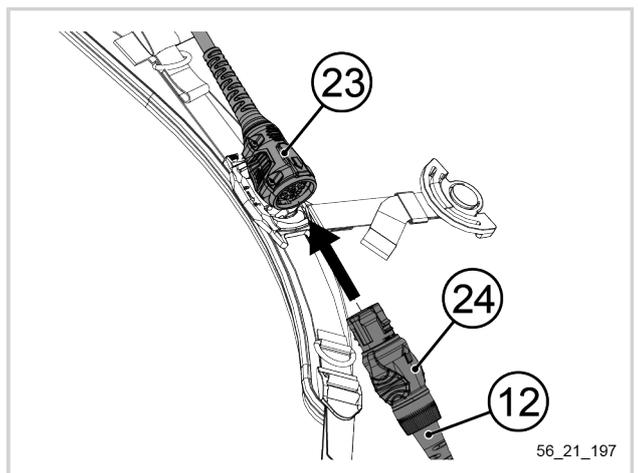
1. Make sure that the battery is correctly fitted on the harness, see Section 4.3, "Fitting the battery on the harness".
2. Ensure that the quick connector (23) is properly connected to the battery.



3. Align the power cord key marker (12) with the notch in the quick connect adapter (24) (reference 57262).
4. Connect the power cord (12) to the red connector on the quick connect adapter.
5. Tighten the tightening ring (25) of the power cord (12).

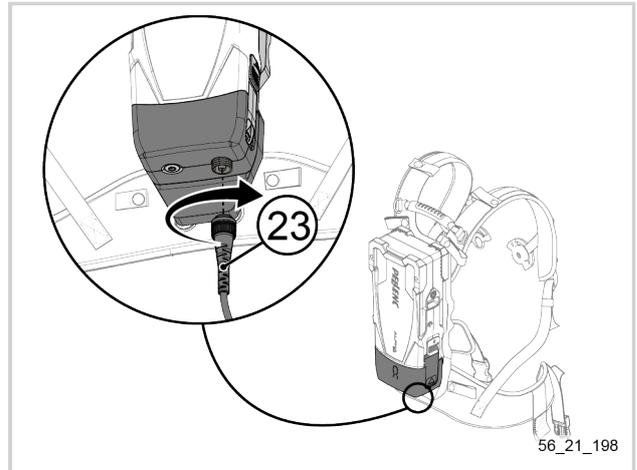


6. Align the arrows on the quick connector adapter (24) and the quick connector (23).
7. Connect the quick connector adapter (24) to the quick connector (23).
8. Ensure that the quick connector (23), quick connector adapter (24) and power cord (12) are correctly connected.

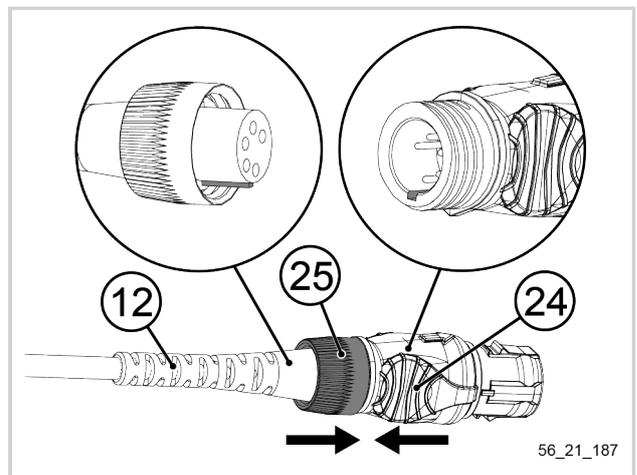


**4.5.3. ALPHA 520 BATTERY**

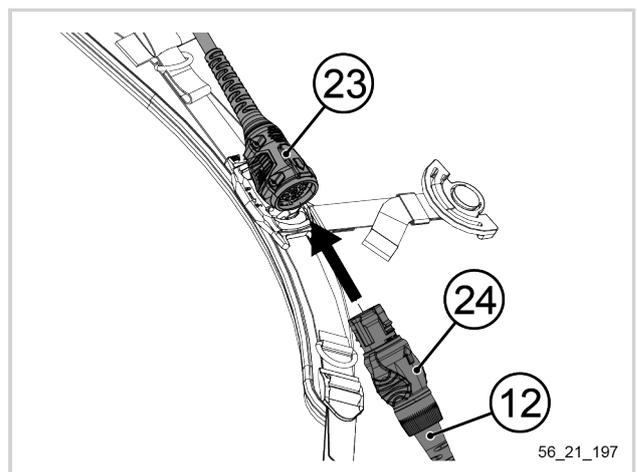
1. Make sure that the battery is correctly fitted on the harness, see Section 4.3, "Fitting the battery on the harness".
2. Ensure that the quick connector (23) is properly connected to the harness.



3. Align the power cord key marker (12) with the notch in the quick connect adapter (24) (reference 57262).
4. Connect the power cord (12) to the red connector on the quick connect adapter.
5. Tighten the tightening ring (25) of the power cord (12).



6. Align the arrows on the quick connector adapter (24) and the quick connector (23).
7. Connect the quick connector adapter (24) to the quick connector (23).
8. Ensure that the quick connector (23), quick connector adapter (24) and power cord (12) are correctly connected.



## 5. USING THE TOOL

### 5.1. ADJUSTING THE HARNESS

- Put on your harness. To adjust your harness according to your body size, refer to the fitting instructions provided with your harness.

### 5.2. SWITCHING THE BATTERY ON AND OFF

For more information on powering on and off, refer to the battery's operating instructions.

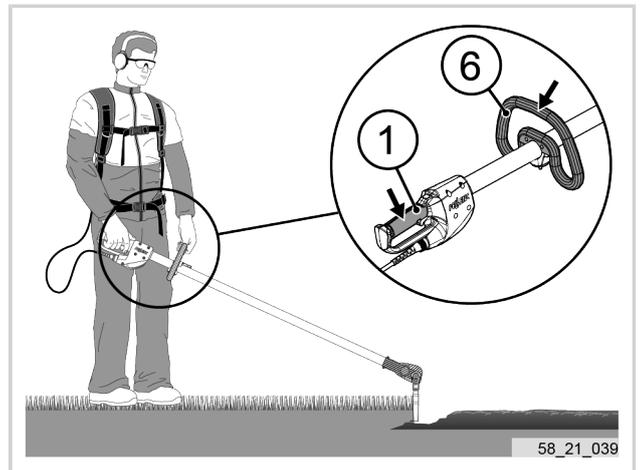
### 5.3. HOLDING THE TOOL

- Hold the tool by the rear handle (1) and the front handle (6).
- Be sure to check that the tool is not touching anything.
- The Cultivion is in 'start' position.

#### **Important**

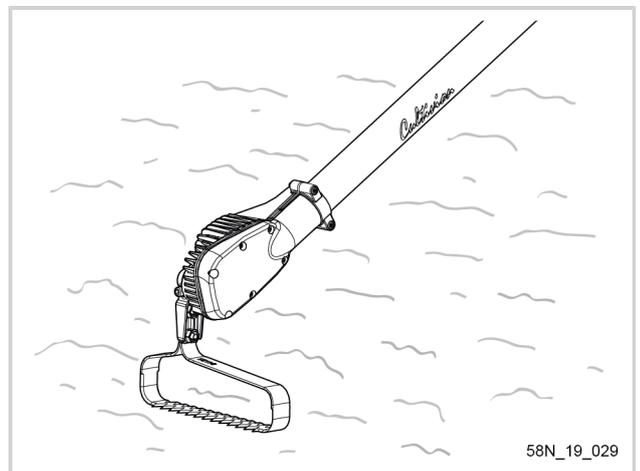
Do not work anywhere other than in soil.

- Ⓒ Never disconnect the battery cable without checking that the battery switch is at 0.



### 5.4. START-UP IN NORMAL MODE

- For improved stability hold the machine in its operating position, with the tool attachment held off the ground.



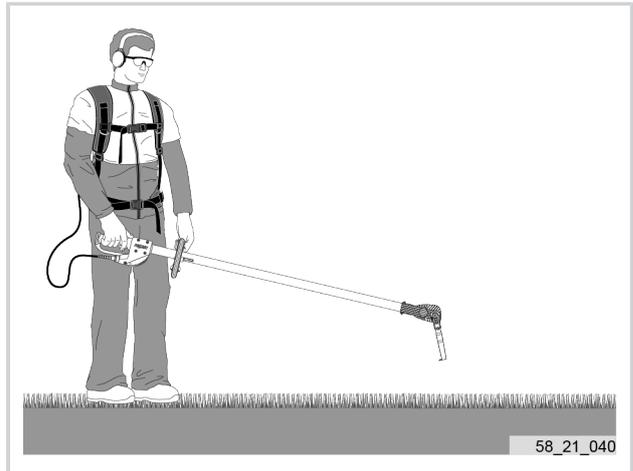
- Turn on the battery.

If any LED on the handle is on, the tool is 'On' and ready to operate.

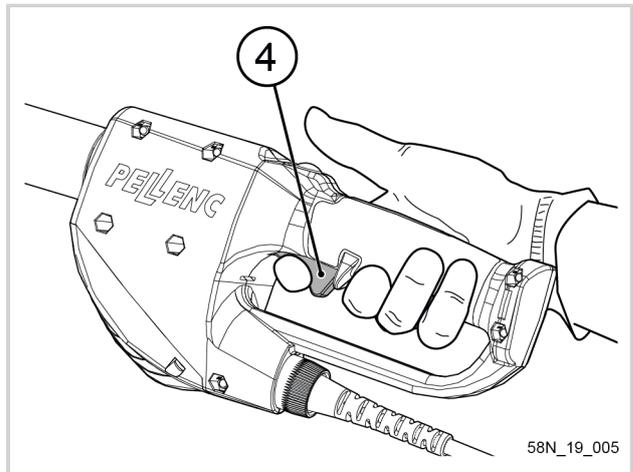
**Important**

Ⓢ Always start the motor before bringing the tool head into contact with the ground.

3. Lift the Soil Cultivator so that it is not touching the ground when starting up.
4. Keep the drive trigger (4) pressed. The tool is operating.
5. Gradually bring the tool into contact with the soil.
6. Release the drive trigger (4) to stop the tool.



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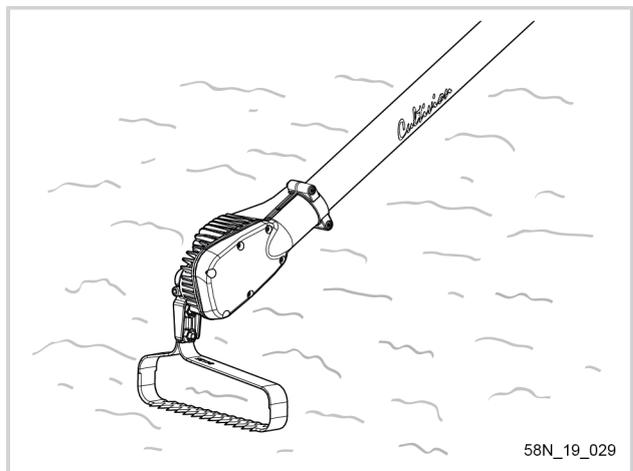


58N\_19\_005

**5.5. START-UP IN CONTINUOUS MODE**

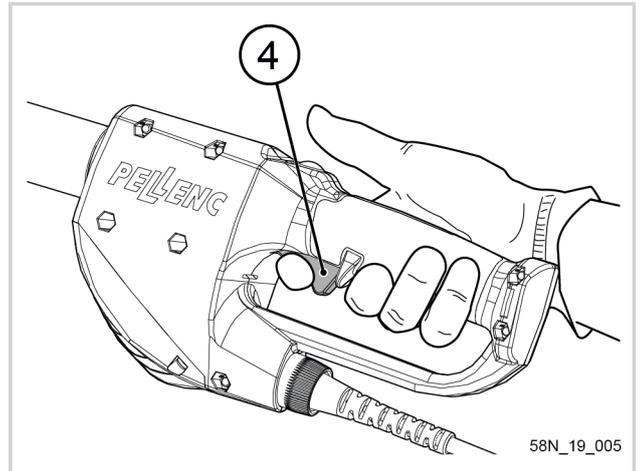
The Cultivion has a continuous mode which allows the user to work with the tool at constant speed without having to keep the trigger pressed.

1. For improved stability hold the machine in its operating position, with the tool attachment held off the ground.



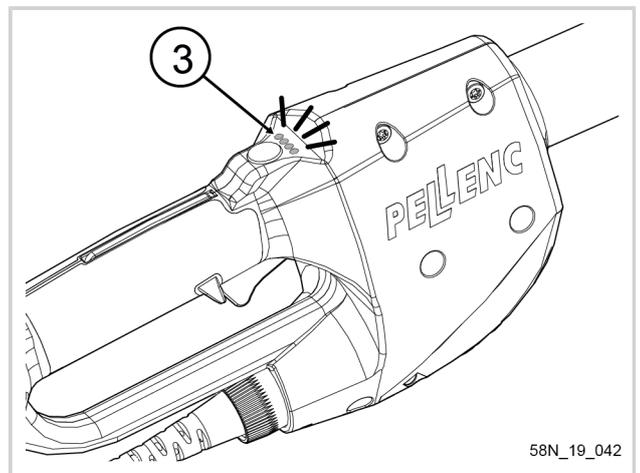
58N\_19\_029

2. Keep the drive trigger (4) pressed.

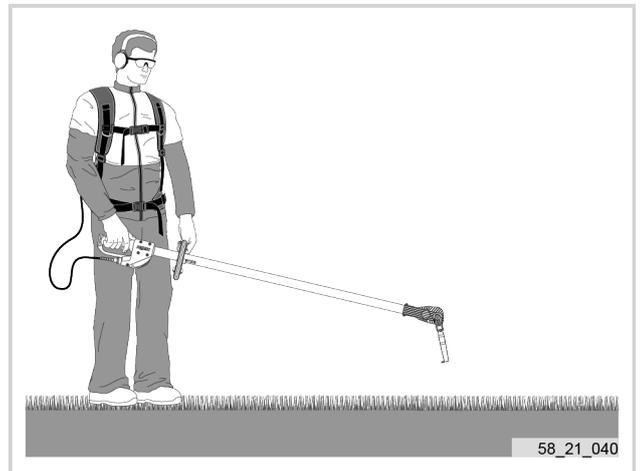


3. While holding down the activation trigger (4), turn on the battery.
4. Wait until the On/Off LEDs (3) light up on the Cultivion, and release the drive trigger (4).

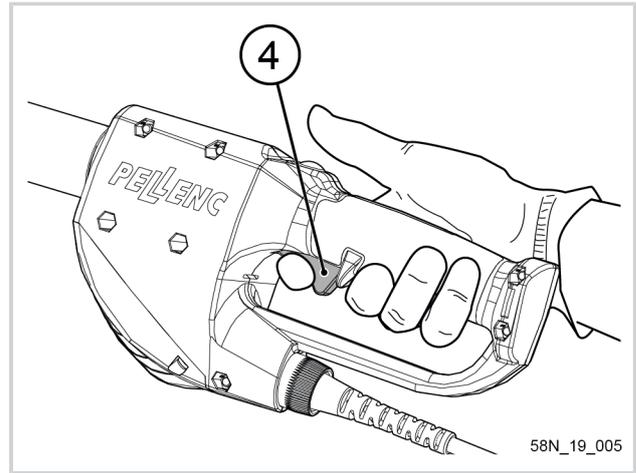
The tool is now 'On' and ready to operate in "continuous" mode.



5. Lift the Soil Cultivator so that it is not touching the ground when starting up.



6. Press the start-up trigger (4) once and release it.  
The machine operates in continuous mode.
7. Gradually bring the tool into contact with the soil.
8. To stop the tool, press the drive trigger (4) again and release it.
9. Make sure that the machine has stopped.



**Caution**



If any LED on the handle is on, the machine is still powered on.

Ⓢ Always start the motor before bringing the tool head into contact with the ground.

**Note**

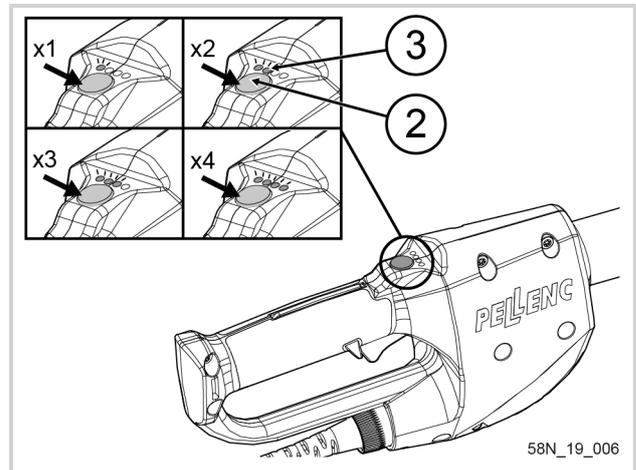
Let the Cultivion do the work by drawing it towards you without over-forcing.

**5.6. SPEED SELECTOR**

Your Cultivion has a speed selector (2) on the rear handle. This speed change system allows you to optimize the desired quality of work.

Four LEDs (3) on the handle indicate the selected speed level when the machine is On.

These LEDs (3) will flash if the tool approaches the temperature safety threshold.



1 LED on	Speed 1 (705 strokes/min)
2 LEDs on	Speed 2 (765 strokes/min)
3 LEDs on	Speed 3 (825 strokes/min)
4 LEDs on	Speed 4 (885 strokes/ min)

**5.7. ADJUSTING THE TOOL HEAD TILTING POSITIONS**



**Warning**

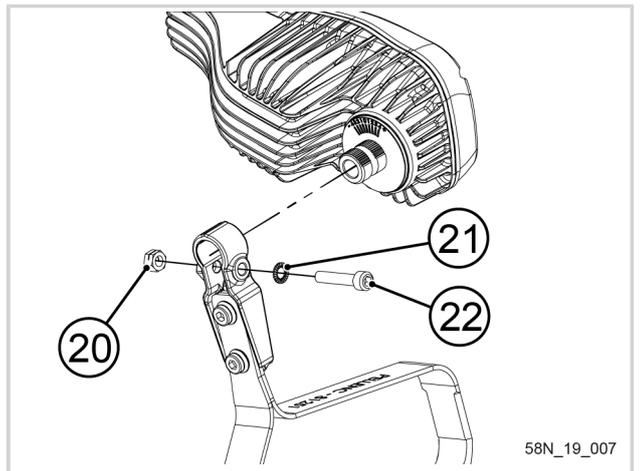
Always disconnect the battery before working on the tool.

Wear protective gloves when handling the tool.

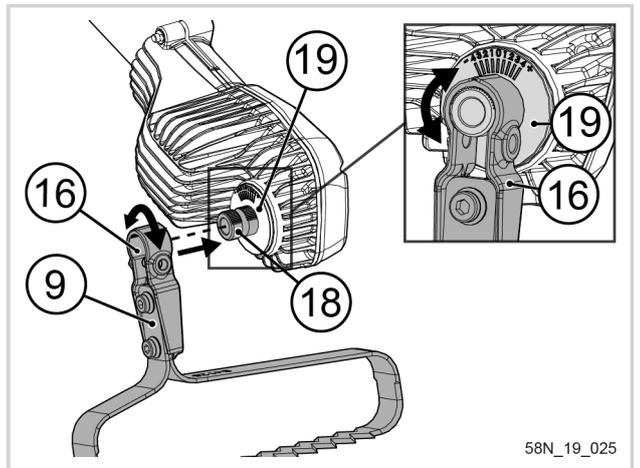
1. Remove the assembly: tightening screw (22), washer (21) and nut (20) using a 5 mm hex. wrench.
2. Take off the working tool assembly

**Important**

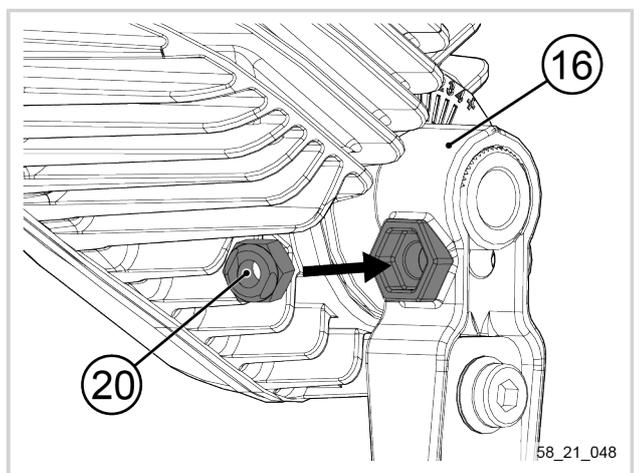
Ⓒ Be careful not to lose the nut (20) and washer (21).



3. Position the blade mounting assembly (9) on the shaft (18), aligning the mark on the mounting part (16) with the mark for the desired tilt (between -4 and +4).
4. Push the working tool support into the casing (19) until it clicks into place.



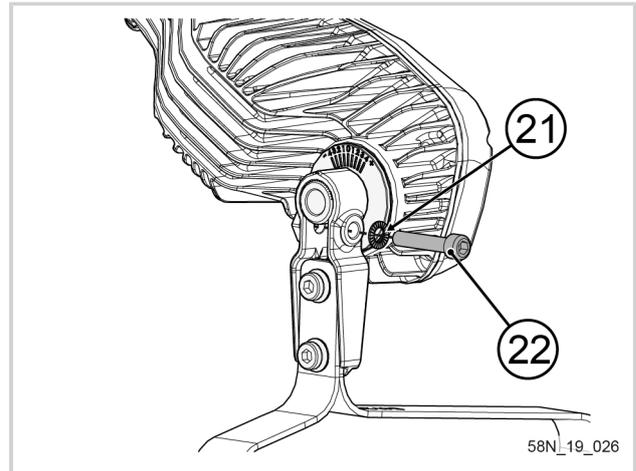
5. Place the nut (20) in the position provided on the mounting part (16).



6. Fit the washer (21) and screw (22).
7. Tighten the screw (22) using a 5 mm hex socket and a torque wrench.

**Important**

Tightening torque: 12 N.m



**Note**

The correct setting is reached when the machine moves back with almost no effort by the user.

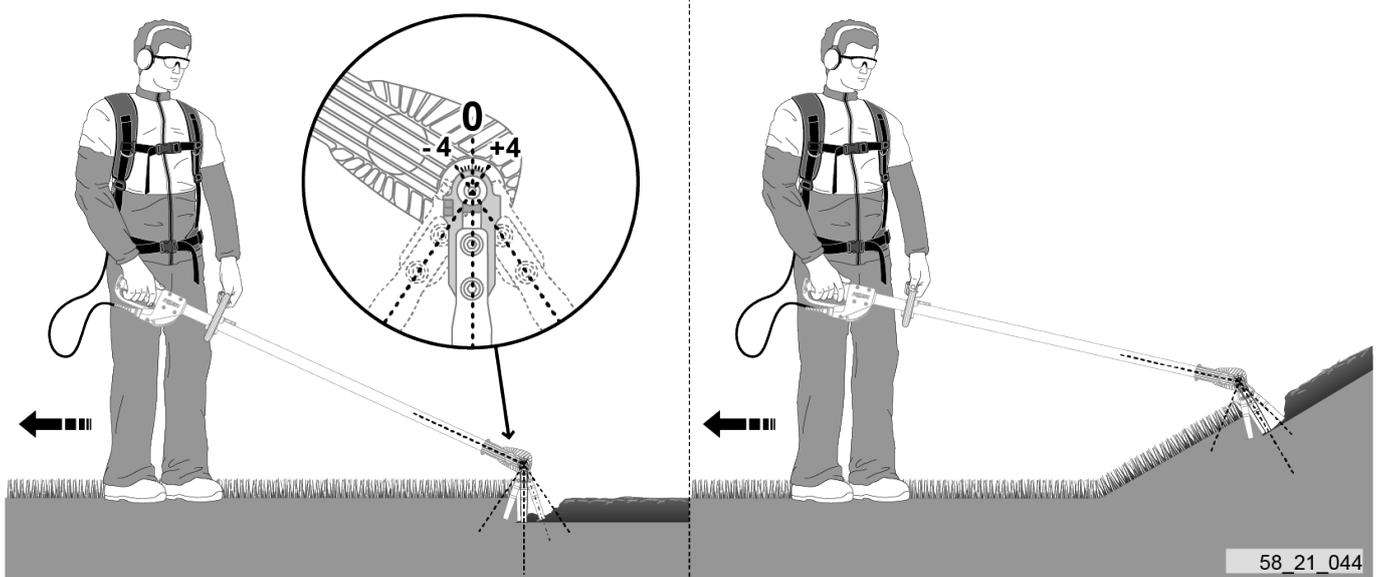
**Walk backwards while working, so as not to tread on the completed work.**

**To find the optimum setting, put the working tool in position “0”.**

- If the machine tends to sink too far into the ground and does reverse towards the user, dismount the work tool following the procedure explained above and tilt it towards "+" side with respect to the position "0".
- If the machine tends not to dig deeply, and comes out of the soil jerking abruptly, tilt the work tool into a position towards the "-" side.
- Repeat the operation as many times as necessary until you find the optimum setting.

**Note**

It may be necessary to alter the tilt of the working tool head according to the topology of the ground surface (hedgerows, ditches, hills, etc.).



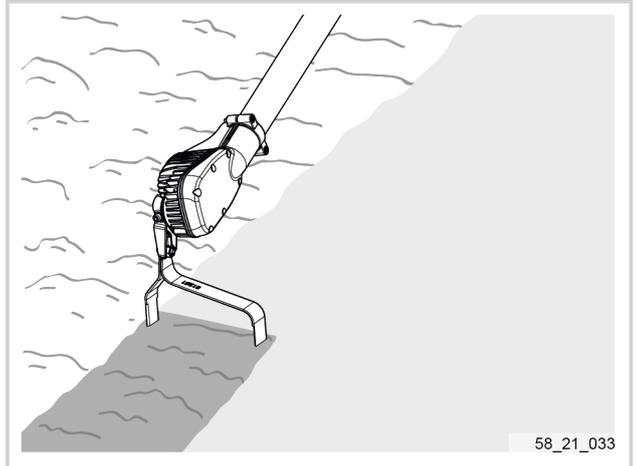
**Note**

The ideal working position is: left arm extended, left hand on the front handle, right arm slightly bent, right hand on the rear handle.

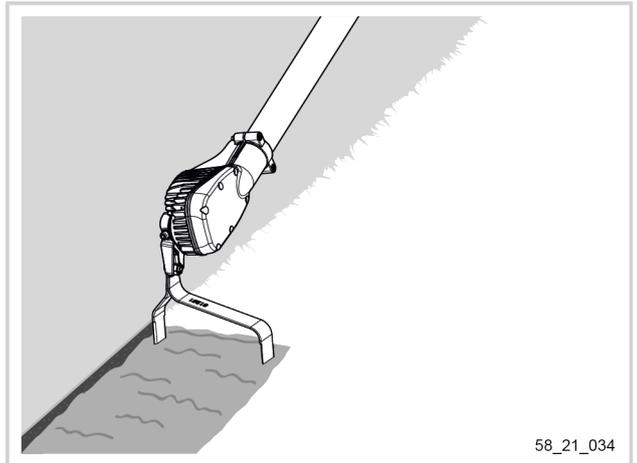
**5.8. VARIOUS USES**

The Cultivion is a soil cultivating or hoeing machine, that enables:

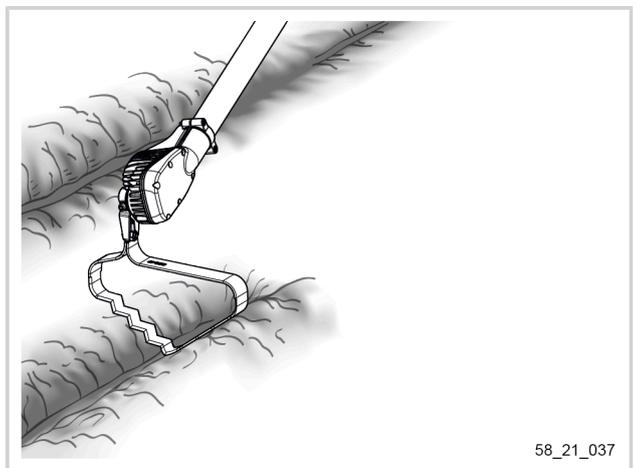
- aerating and cultivating the soil
- weeding
- mixing compost, fertilizer, etc. into the soil

**Cleaning borders and edges:**

It can also be used to clean edges thanks to the sharp sides of its work tool.

**Digging furrows:**

In addition it can also be used for digging furrows using the work tool (ref. 83849).



**6. MAINTENANCE**

**6.1. MAINTENANCE TABLE**

Maintenance tasks	At each start-up	After each use	Every year or when necessary
Cleaning the machine (see Section 6.2, "Cleaning the tool")		X	
Visual inspection of the tool	X	X	
Checking sharpness and sharpening if necessary (see Section 6.4, "Sharpening the work tool")		X	
Checking working tool tightening (see Section 6.3, "Checking the work tool tightening")	X		
Have the tool inspected by an authorised distributor			X

**Important**

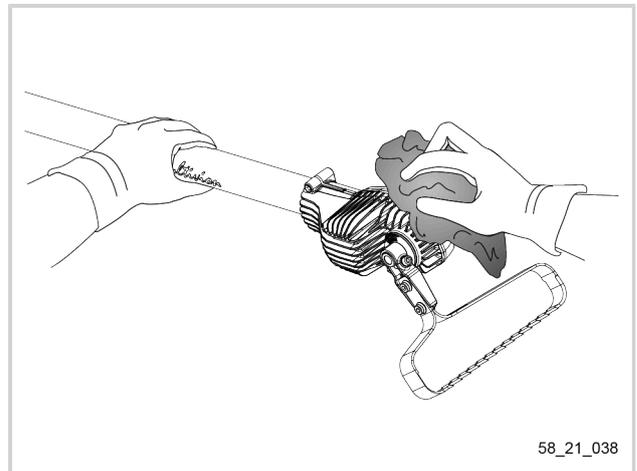
Ⓒ Have your Cultivion overhauled every 200 hours or at least once a year.

**6.2. CLEANING THE TOOL**

- Clean the tool with a damp cloth.

**Important**

Do not use a water jet directly on the tool and blade.



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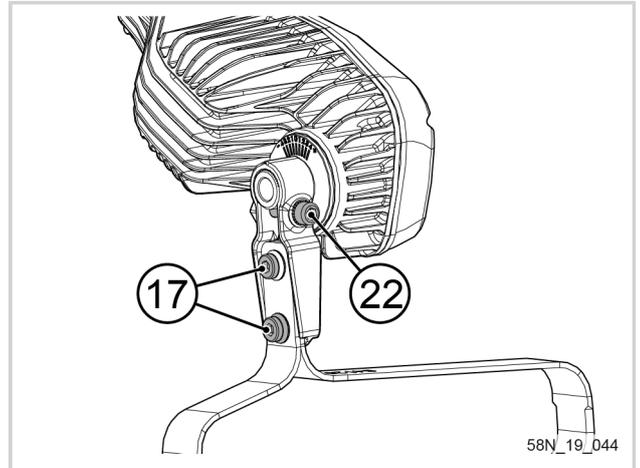
## 6.3. CHECKING THE WORK TOOL TIGHTENING

**Warning**

Always disconnect the battery before working on the tool.

Battery is off, check the screw tightening torque:

- (22): tightening torque 12 N.m.
- (17): tightening torque 6 N.m.

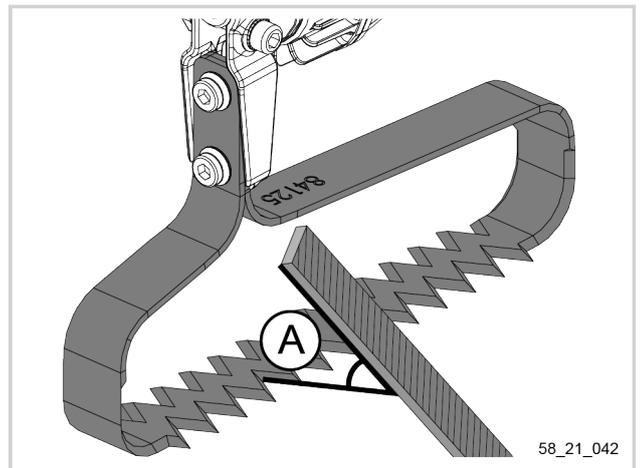


## 6.4. SHARPENING THE WORK TOOL

**Warning**

Always disconnect the battery before working on the tool.

1. Sharpen the working tool lightly but often using a flat file.
2. Regularly check how sharp the blades are for the first few hours to determine the required frequency of sharpening.
3. Maintain an angle (A) of 45° to the blade during sharpening.



## 6.5. CHANGING THE WORK TOOL ATTACHMENT

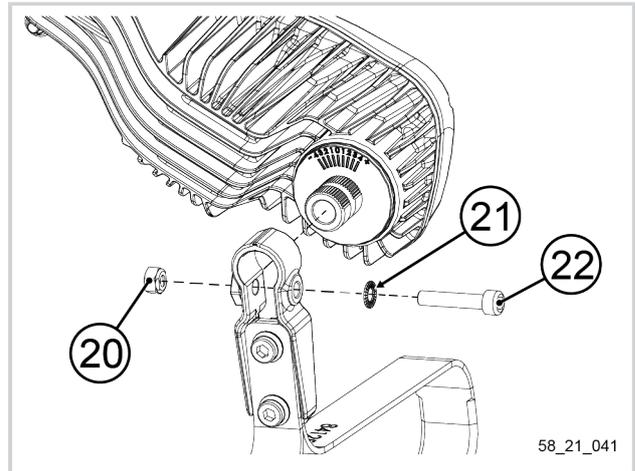
**Caution**

Wear protective gloves when handling the tool.

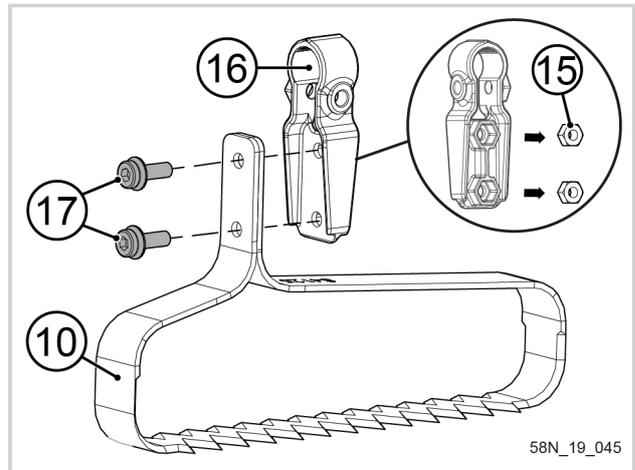
Always disconnect the battery before performing maintenance on the tool.

**NOTE:** The procedure is the same regardless of the work tool used.

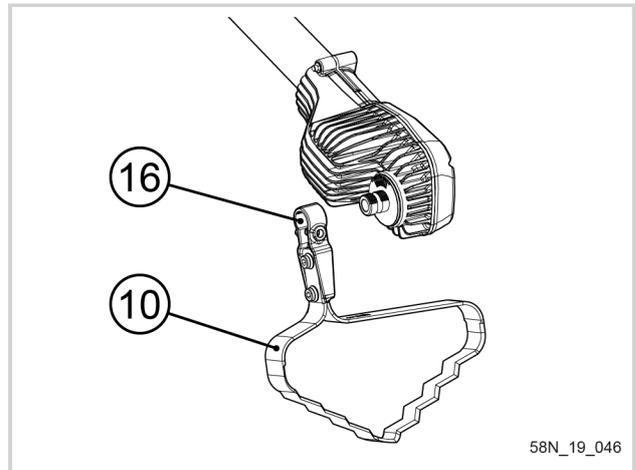
1. Remove the assembly: tightening screw (22), washer (21) and nut (20) using a 5 mm hex. wrench.
2. Remove the tool head attachment from the shaft.



3. Remove the tightening screws (17) using a 5 mm hex wrench.
4. Keep the two screws (15) present on the attachment part (16).
5. Remove the blade (10).



6. Change the blade (10).
7. Fit the new blade (10) onto the blade mount part (16).
8. Fit the head onto the tool (refer to Section 4.2, "Fitting the tool head").



**7. INCIDENTS AND TROUBLESHOOTING**

Symptoms	State of the on/off switch of the battery	State of the LEDs	Probable cause	Checks	Solutions	Repairer
The machine does not start	0	Off	Battery is off	Battery switch	Flip the battery switch	User
			The power cord is severed	Check the condition of the cord	Change the cord	Authorised PELLENC distributor
			Battery	Check that the battery is not completely discharged	Recharge the battery	User
	I	Off	Electronic circuit board	At an authorised PELLENC distributor	Change the electronic board if the diodes remain off after starting and checking the previous points	PELLENC authorised distributor
			Trigger no longer functions	At an authorised PELLENC distributor	Change the trigger or sensor	PELLENC authorised distributor
			Electronic circuit board	At an authorised PELLENC distributor	Change the circuit board	Authorised PELLENC distributor
The machine makes an unusual noise	I	On	The machine is blocked in the soil	Check that the machine is not stuck in the ground	Take the machine out from the ground	User
			Tightening of the two work tool screws	Tighten to 6.0N.m	Tighten to 6.0N.m	User
			Tighten screw on working head	Tighten to 12.0N.m	Tighten to 12.0N.m	
			Internal breakage	At an authorised PELLENC distributor	Replace damaged parts	Authorised PELLENC distributor

Symptoms	State of the on/off switch of the battery	State of the LEDs	Probable cause	Checks	Solutions	Repairer
LEDs flashing during use	I	Single flash	The machine is close to its temperature limit	LEDs flashing	Reduce the machine speed or pause for a while	User
The machine cuts out during use	I	Off	The machine has reached its temperature limit	4 beeps from the battery	Let the machine cool for about 5 mins	User
	I	Off	Battery	Check that the battery is not completely discharged	Recharge the battery	User
Stop then restart the battery, and see section "The tool does not start" if necessary						

## 8. STORAGE AND TRANSPORT

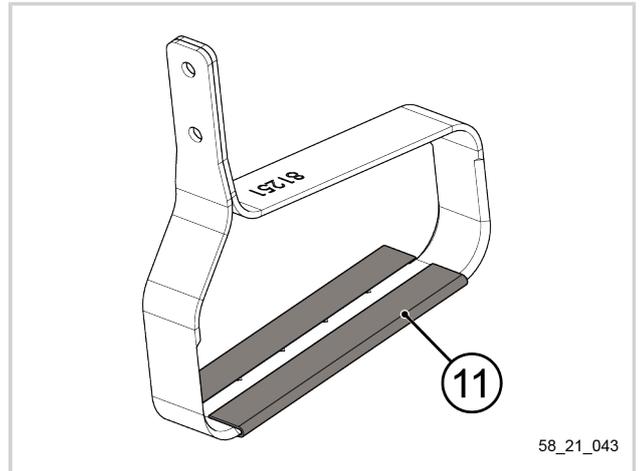


### Caution

Wear protective gloves when handling the tool.

### 8.1. STORAGE

1. Switch off the tool (see Section 5, "Using the tool").
2. Disconnect the battery.
3. Store the battery (refer to the battery operating instructions).
4. Clean the tool (see Section 6.2, "Cleaning the tool").
5. Always store a tool with its blade sharpened (see Section 6.4, "Sharpening the work tool").
6. Put the protective clips (11) over the blade.
7. Store the tool in a dry place out of children's reach. Never store the tool at an ambient temperature above +45°C.



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### 8.2. TRANSPORT

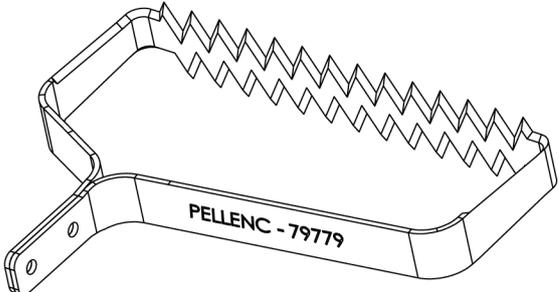
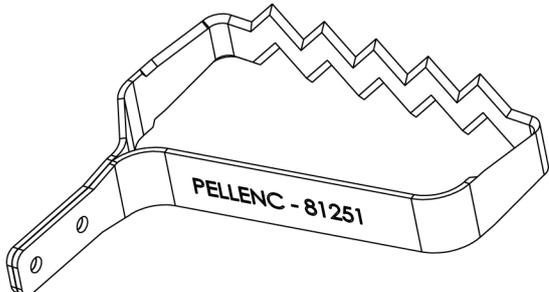
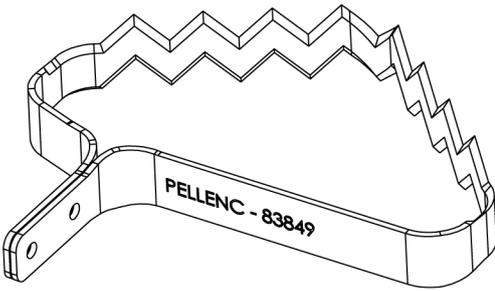
1. Switch off the tool (see Section 5, "Using the tool").
2. Disconnect the battery.
3. Fit the clip-on seals (11).
4. Ensure that the tool and the battery are secured in the transport vehicle.

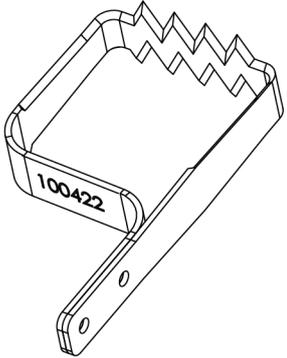
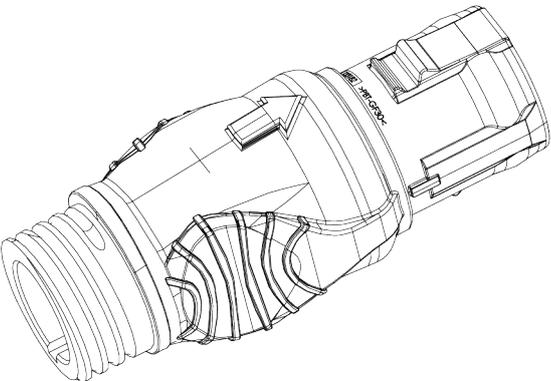
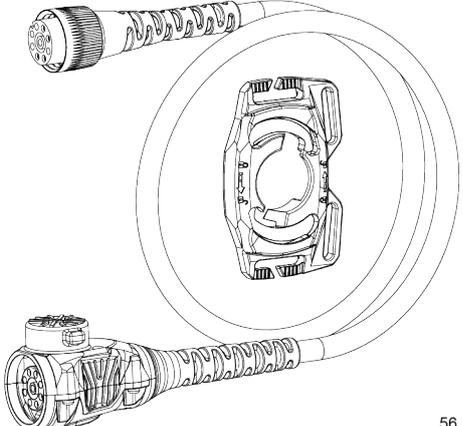
**9. ACCESSORIES AND CONSUMABLES**

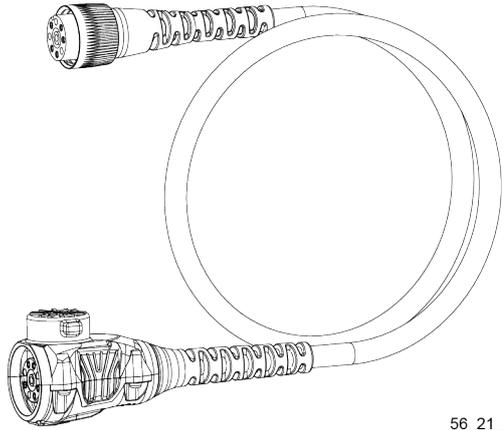
**9.1. ACCESSORIES INCLUDED**

For a list of accessories included with the tool, see Section 3.2, "Contents of the kit".

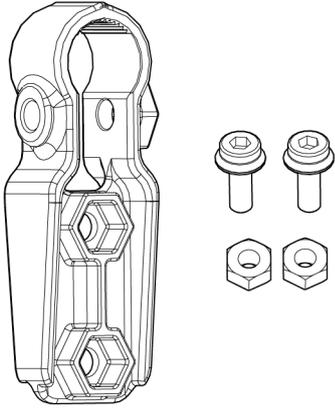
**9.2. OPTIONAL ACCESSORIES**

Name	reference	
<p>Working tool with 220 mm width blade.</p> <p>Used for deep working of the soil</p>	79779	 <p style="text-align: right;">58N_19_017</p>
<p>Working tool with 160 mm width blade.</p> <p>Used for deep working of the soil</p>	81251	 <p style="text-align: right;">58N_19_018</p>
<p>Working tool with 160 mm width V-shaped blade.</p> <p>It is used for digging furrows and weeding around plants and shrubs while preserving the roots.</p>	83849	 <p style="text-align: right;">58N_19_019</p>

Name	reference	
<p>Working tool with 80 mm wide blade.</p> <p>Used for digging between plants, in confined spaces. Its size helps reduce vibrations.</p>	<p>100422</p>	 <p>58N_19_020</p>
<p>Quick connector adapter</p>	<p>57262</p>	 <p>56_21_211</p>
<p>9-point quick-connect power cord + 1/4 turn plate</p>	<p>57238</p>	 <p>56_21_212</p>

Name	reference	
Alpha long 9-point quick-connect power cord	57248	 <p data-bbox="1353 667 1439 689">56_21_213</p>
10 m extension power cord	100994	 <p data-bbox="1353 1146 1439 1169">48_21_038</p>

**9.3. CONSUMABLES**

Name	reference	
Cultivion blade attachment kit.	101003	 <p data-bbox="1343 1805 1439 1827">58N_19_048</p>

## 10. WARRANTIES

### 10.1. GENERAL WARRANTIES

#### 10.1.1. STATUTORY WARRANTY

##### - 10.1.1.1. LATENT DEFECTS WARRANTY

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. "

##### - 10.1.1.2. LEGAL WARRANTY OF CONFORMITY

Article L.217-4 of the French 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 French Consumer Code "Goods are compliant with the contract":

1. Where they are fit for the purpose normally expected of similar goods and, where applicable:
  - If it matches the description given by the seller and possesses the qualities that were presented to the purchaser in the form of a sample or model;
  - If it possesses the qualities that a purchaser 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".

#### 10.1.2. COMMERCIAL WARRANTYPELLENC

##### - 10.1.2.1. CONTENT

###### 10.1.2.1.1. GENERAL INFORMATION

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

The warranty is fully integral to the product sold by PELLENC.

###### 10.1.2.1.2. 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.

**- 10.1.2.2. DURATION OF THE WARRANTY****10.1.2.2.1. 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.

**10.1.2.2.2. SPARE PARTS**

PELLENC Replacement parts replaced under the product warranty are guaranteed under the commercial warranty as from delivery of the PELLENC product to the customer user 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.

**10.1.2.2.3. 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 operating instructions 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 customer user.

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

**- 10.1.2.3. IMPLEMENTATION OF THE COMMERCIAL WARRANTY****10.1.2.3.1. 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](http://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 commercial warranty PELLENC 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.

**10.1.3. PAID AFTER-SALES SERVICE****- 10.1.3.1. 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.

**- 10.1.3.2. WEAR PARTS AND CONSUMABLES**

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

**- 10.1.3.3. 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.

**11. COMPLIANCE STATEMENTS: CULTIVION**

**11.1. STATEMENT  OF COMPLIANCE: CULTIVION**

MANUFACTURER/ENTITY AUTHORISED TO COM- PILE THE TECHNICAL FILE	PELLENC
ADDRESS	Quartier Notre-Dame - 84120 Pertuis (France)

We hereby declare that the machine referred to below as:

GENERIC DENOMINATION	Soil Cultivator		
FUNCTION	SOIL CULTIVATOR		
COMMERCIAL NAME	CULTIVION		
TYPE	CULTIVION		
MODEL	CULTIVION		
SERIAL NO.	58V00001 - 58V49999	58W00001 - 58W49999	58X00001 - 58X49999

Compliant with the following standards:

European: 2014/30/EU - EMC Directive	Moroccan: Décret # 2574-14
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The following standards have been used in whole or in part:

European: EN 55014-1: 2006 + A1: 2009 + A2: 2011 EN 55014-2: 1997 + A1: 2001 + A2: 2008 EN 60745-1: 2009 + A11: 2010	Moroccan: NM IN 55014-1 : 2014 NM IN 55014-2: 2014 IEC 60745-1: 2006
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SIGNED IN PERTUIS, DATED 27/09/2021  
JEAN-MARC GIALIS  
CHIEF EXECUTIVE OFFICER



**11.2. UK DECLARATION OF CONFORMITY <sup>UK</sup>CA : CULTIVION**

MANUFACTURER / ENTITY AUTHORIZED TO COMPILE THE TECHNICAL FILE	PELENC
ADDRESS	Quartier Notre-Dame - 84120 Pertuis (France)

We hereby declare that the machine referred to below as:

GENERIC DENOMINATION	SOIL CULTIVATOR		
FUNCTION	SOIL CULTIVATOR		
COMMERCIAL NAME	CULTIVION		
TYPE	CULTIVION		
MODEL	CULTIVION		
SERIAL No.	58V00001 - 58V49999	58W00001 - 58W49999	58X00001 - 58X49999

Complies with the relevant provisions of the Supply of Machinery (Safety) Regulations 2008.

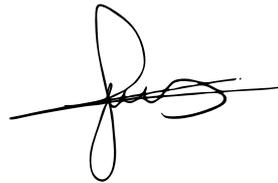
Complies with the following other directives and / or relevant provisions :

- Electromagnetic Compatibility Regulations 2016
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012
- 1907/2006 REACH Regulations
- The Waste Electrical and Electronic Equipment Regulations 2013

The following harmonised european standards were used :

- BS EN 60745-1:2009+A11:2010
- BS EN 55014-1:2006+A2:2011
- BS EN 55014-2:1997+A2:2008

SIGNED IN PERTUIS, DATED 27/09/2021  
JEAN-MARC GIALIS  
CEO







# **PELLENC**

   [www.pellenc.com](http://www.pellenc.com)

PELLENC  
Quartier Notre Dame - 84120 Pertuis (France)

