

User manual

INTEGRATED HYDRAULIC SAFETY POWER CABLE SPIKER AND CUTTER SPCCI

<p>SPCCS100SI</p> <p><input type="checkbox"/></p>	
<p>SPCCS140WI</p> <p><input type="checkbox"/></p>	
<p>SPCC140WI</p> <p><input type="checkbox"/></p>	

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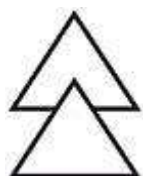
Modified:

Version: 01

A. WARNINGS



1	Please read the instructions carefully before using the tool.
2	Do not put your hands between the blades during operation, cleaning and testing. Stop the power supply before the intervention (remove the battery).
3	Please wear protective equipment in operation to ensure your safety.
4	Do not cut steel profiles or steel tubes.



IEC 60417-5216 symbol suitable for live working.

The marking on the components is for your safety. It indicates information about the tool. Please do not erase or remove the marking.

B. PURPOSE OF THE TOOL SPCCS100 & SPCC(S)140

The PICOU is a safety tool developed, tested and produced by MOS INDUSTRIE and sold under FAMECA brand outside France. It is designed to securely dead proof all types of cables that can go between the blades.

It comes with a spike on one blade to help create a single phase short circuit to earth in case of presence of voltage in the cable (single phase or tripolar).

The hydraulic unit is integrated into the tool, this eliminates the hydraulic hose potentially generating oil leaks at 700bar.

C. APPLICATION

- SPIKE a LV or MV and HV cable to check and ensure the absence of voltage before cutting it.
- CUT (which is carried out in continuity with the spiking phase)

D. TOOL STRENGTHS SPCCS100 & SPCCS140

- *USER SAFETY*

Elimination of the risk of oil leakage by suppression of hydraulic hose.

Remoteness of the operator: activation only remotely by the remote control.

- *EASE OF USE FOR THE OPERATOR*

The SPCCS80SI allows the operator to carry out his spiking and cutting operations without any other equipment than that provided in the carrying case.

- *A SINGLE OPERATION, REGARDLESS OF THE TYPE OF CABLE*

Spiking and cutting are operated one after the other in one single operation on all types of cables going between the blades of the tool.

- *EASE OF IMPLEMENTATION*

Put the device in place on the cable to be cut. Make sure that the device is well kept in position by using the accessories provided.

Operate the device with the remote control unit from a minimum of 8 meters distance.

E. FUNCTIONS PROVIDED BY THE SPCCS100 & SPCCS140

The spiking and cutting of a cable are operations that must be carried out on an isolated cable.

When using the PICOUP, the SPIKE first verifies the absence of voltage by spiking one phase.

CUTTING blades then ensure the complete cut of the cable. All cable spiked must be cut to the end of the cut.

The operating mode of the PICOUP imposes the complete execution of the operation to guarantee the absence of voltage by destroying the cable “by cutting it”.

The profiles of the SPIKING and CUTTING blades, as well as their speed of penetration have been designed so that, in the event of an accidental spiking of a live cable, the network protections can react before the blades reach a second phase, regardless of the type of cable, preventing a much more powerful phase-phase short circuit (for tripolar cables)

F. TECHNICAL CHARACTERISTICS

→ SPCCS100SI

Characteristics of the cables to be cut:

- Copper conductors	YES
- Aluminum conductors	YES
- Steel wire armature (diameter mm)	NOT
- Flat wire armature (thickness mm)	2
- Steel sheath armature (thickness mm)	2

Fault according to network protection:

- Fuses	Three-phase fault
- Circuit breaker	Single phase fault on one of the phases

Grounding cables:

- ICC 18kA.1s or 25kA.0,5s (section mm ²)	70Cu
- ICC 31kA.1s or 43kA.0,5s (section mm ²)	/

Cutting head:

- Maximum cutting diameter (mm)	100
- Weight without grounding (kg)	14
- Dimensions (mm)	628x165x328
- Cutter blade hardness (Hrc)	55
- Blade anti-corrosion treatment	Zinc plating
- Main material	Steel
- Replaceable peak	YES
- Peak hardness (Hrc)	62
- Cutting force (tons)	13

Integrated electro-hydraulic unit :

- Hydraulic pressure (bar)	700
- Interchangeable battery (BOSCH)	24v 3Ah
- Autonomy (number of cuts)	15 à 20
- approach /cutting speeds (l/min – mm/s)	1,3/0,4 - 1/4
- Hydraulic distributor	Single acting
- Blade reopening	Lever + spring return
- Oil volume (ml)	300

Remote control unit:

- Indicative transmission distance / battery	100m / 1,5V AAA
- Radio frequency	Radio 868 Mhz
- Indicator lights (flashing / fixed)	Green LED (cutting in progress/ end of VAT) yellow LED (transmission ok/ -) Red LED (- / problem on tool see manual)

Control box :

- Indication lights	3 LEDs (red = battery too low no VAT start; yellow = 1 autonomy cut remaining; green = autonomy OK)
- Cutting data	Backup 2 years (factory accessible)

Packaging / miscellaneous:

- Total weight in soft case (kg)	28
- Dimensions in soft case (mm)	670x180x340
- Total weight in wheel case (kg)	35
- Dimensions in wheel case (mm)	687x528x376
- Operating temperature (°C)	-20 / +50
- Ingress protection (IP)	IP 44

→ SPCCS140WI

Characteristics of the cables to be cut:

- Copper conductors	YES
- Aluminum conductors	YES
- Steel wire armature (diameter mm)	4
- Flat wire armature (thickness mm)	4
- Steel sheath armature (thickness mm)	4

Fault according to network protection:

- Fuses	Three-phase fault
- Circuit breaker	Single phase fault on one of the phases

Grounding cables:

- ICC 18kA.1s or 25kA.0,5s (section mm ²)	70Cu
- ICC 31kA.1s or 43kA.0,5s (section mm ²)	/

Cutting head:

- Maximum cutting diameter (mm)	140
- Weight without grounding (kg)	20
- Dimensions (mm)	678x188x320
- Cutter blade hardness (Hrc)	55
- Blade anti-corrosion treatment	Zinc plating
- Main material	Steel
- Replaceable peak	NOT
- Peak hardness (Hrc)	/
- Cutting force (tons)	21

Integrated electro-hydraulic unit :

- Hydraulic pressure (bar)	700
- Interchangeable battery (BOSCH)	24v 3Ah
- Autonomy (number of cuts)	15 à 20
- approach /cutting speeds (l/min – mm/s)	1,3/0,4 - 1/4
- Hydraulic distributor	Double acting
- Blade reopening	Selector + hydraulic return
- Oil volume (ml)	300

Remote control unit:

- Indicative transmission distance / battery	100m / 1,5V AAA
- Radio frequency	Radio 868 Mhz
- Indicator lights (flashing / fixed)	Green LED (cutting in progress/ end of VAT) yellow LED (transmission ok/ -) Red LED (- / problem on tool see manual)

Control box :

- Indicator lights	3 LEDs (red = battery too low no VAT start; yellow = 1 autonomy cut remaining; green = autonomy OK)
- Cutting data	Backup 2 years (factory accessible)

Packaging / miscellaneous:

- Total weight in soft case (kg)	34
- Dimensions in soft case (mm)	670x180x340
- Total weight in wheel case (kg)	42
- Dimensions in wheel case (mm)	687x528x376
- Operating temperature (°C)	-20 / +50
- Ingress protection (IP)	IP 44

→ SPCC140WI

Characteristics of the cables to be cut:

- Copper conductors	YES
- Aluminum conductors	YES
- Steel wire armature (diameter mm)	3
- Flat wire armature (thickness mm)	3
- Steel sheath armature (thickness mm)	3

Fault according to network protection:

- Fuses	Only on HV cable
- Circuit breaker	One phase per cut

Grounding cables:

- ICC 18kA.1s or 25kA.0,5s (section mm ²)	/
- ICC 31kA.1s or 43kA.0,5s (section mm ²)	Without MALT in HV

Cutting head:

- Maximum cutting diameter (mm)	140
- Weight without grounding (kg)	20
- Dimensions (mm)	678x188x320
- Cutter blade hardness (Hrc)	55
- Blade anti-corrosion treatment	Zinc plating
- Main material	Steel
- Replaceable peak	NOT
- Peak hardness (Hrc)	/
- Cutting force (tons)	21

Integrated electro-hydraulic unit :

- Hydraulic pressure (bar)	700
- Interchangeable battery (BOSCH)	24v 3Ah
- Autonomy (number of cuts)	15 tp 20
- approach /cutting speeds (l/min – mm/s)	1,3/0,4 - 1/4
- Hydraulic distributor	Double acting
- Blade reopening	Selector + hydraulic return
- Oil volume (ml)	300

Remote control unit:

- Indicative transmission distance / battery	100m / 1,5V AAA
- Radio frequency	Radio 868 Mhz
- Indicator lights (flashing / fixed)	Green LED (cutting in progress/ end of VAT) yellow LED (transmission ok/ -) Red LED (- / problem on tool see manual)

Control box :

- Indicator lights	3 LEDs (red = battery too low no VAT start; yellow = 1 autonomy cut remaining; green = autonomy OK)
- Cutting data	Backup 2 years (factory accessible)

Packaging / miscellaneous:

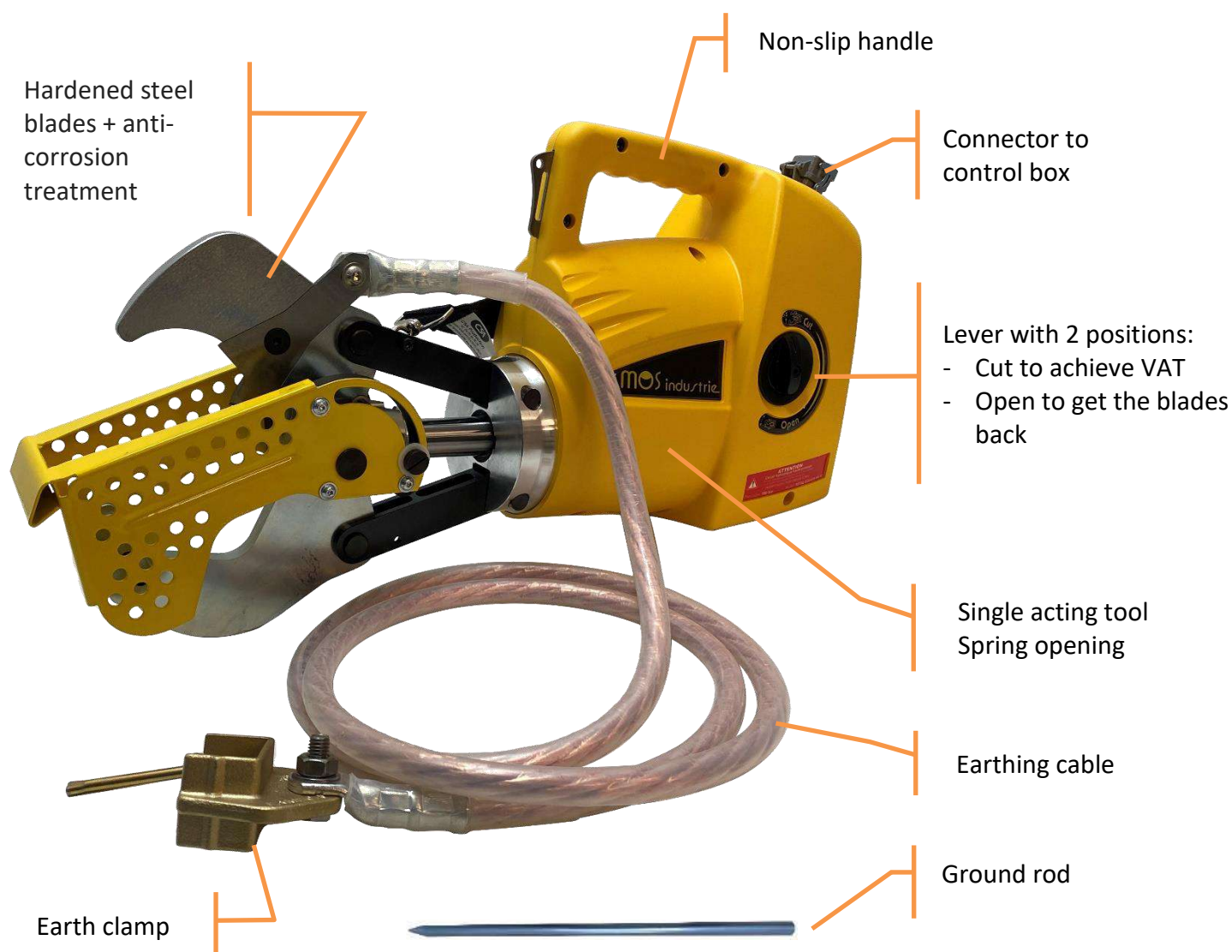
- Total weight in soft case (kg)	34
- Dimensions in soft case (mm)	670x180x340
- Total weight in wheel case (kg)	42
- Dimensions in wheel case (mm)	687x528x376
- Operating temperature (°C)	-20 / +50
- Ingress protection (IP)	IP 44

G. TOOL COMPOSITION

→ **SPCCS100SI**

• HYDRAULIC CABLE CUTTER

- Two-stage hydraulic cylinder
- Earthing kit made of flexible copper braid 2 meters long. Cross-section 70mm²
- Cutting blades and spike of special steel surface and through hardened
- Manual lever: open and cut positions
- Maximum cutting capacity: up to 100 mm outside diameter
- Cables to be cut specifications: see CUTTING CAPACITY
- Cutting force: 13 tons
- Nominal pressure: 700 bar
- Weight: 16kg
- Protection index: IP 44: Outdoor use.



- **CONTROL BOX**

- Power cable: 5m
- Powered by 24V battery
- Battery charge control (LED)
- Protection index: IP 44: Outdoor use.



Battery connection

3 LEDs to indicate battery charging status

5m electric cable to the tool

- **3 - BUTTON REMOTE CONTROL**

- 2 x 1.5V batteries (AAA)
- Coded radio with unique encoding
- Usable up to 150m
- Indication (LED)



LEDs for cutting statuses

3 buttons (ON, OFF, VAT)

Warning

- **Multi-strand copper grounding braid:**

- Dimensions: 2 meters
- Section: 70 mm²
- Protection: Transparent silicone – IEC 1230

- **NiMH battery :**

- Voltage: 24V 3Ah
- LED charging indicator
- Autonomy: 15 to 20 cuts



Battery charge indicator

- **STORAGE CASE ON WHEELS - COMPOSITION**

Compartmentalized storage box containing all the equipment for the VAT. (Verification of the Absence of Voltage).

- Cutting and cutting tool
- Earthing kit made of flexible copper braid 2 meters long. Cross-section 70mm²
- 1 x 24V batteries
- 1 fast charger
- 1 cleaning brush
- 2 straps for hanging the tool in tunnels. Length: 2m
- 1 explosion-proof tarpaulin: 0.7m x 1m
- Operating instructions
- External dimensions L x W x H: 687 x 528 x 376 mm
- Total weight: 35 kg
- Rolling weight: 10 kg



→ **SPCCS140WI**



The **SPCCS140WI** consists of:

• **HYDRAULIC CABLE CUTTERS**

Composed of:

- Double acting hydraulic cylinder
- Earthing kit made of flexible copper braid 2 meters long. Cross-section 70mm²
- Cutting blades of special steel surface and through hardened
- Manual lever: open and cut positions
- Cutting capacity: 140 mm diameter
- Cables to be cut specifications: see CUTTING CAPACITY
- Positioning cover
- Integrated 700 bar hydraulic unit,
- Motor U = 24 V integrated,
- Weight: 20kg
- Protection index: IP 44: Outdoor use.

- **CONTROL BOX**

- Power cable: 5m
- Powered by 24V battery
- Battery charge control (LED)
- Protection index: IP 44: Outdoor use.



Battery connection

3 LEDs to indicate battery charging status

5m electric cable to the tool

- **3 - BUTTON REMOTE CONTROL**

- 2 x 1.5V batteries (AAA)
- Coded radio with unique encoding
- Usable up to 150m
- indication (LED)



LEDs for cutting statuses

3 buttons (ON, OFF, VAT)

Warning

- **NiMH battery :**

- Voltage: 24V 3Ah
- LED charging indicator
- Autonomy: 15 to 20 cuts



Battery charge indicator

- **STORAGE CASE ON WHEELS - COMPOSITION**

Compartmentalized storage box containing all the equipment for the VAT. (Verification of the Absence of Voltage).

- Spiking and cutting tool
- Earthing kit made of flexible copper braid 2 meters long. Cross-section 70mm²
- 1 x 24V batteries
- 1 fast charger
- 2 straps for hanging the tool in tunnels. Length: 2m
- 1 explosion-proof tarpaulin: 0.7m x 1m
- Operating instructions
- External dimensions L x W x H: 687 x 528 x 376 mm
- Total weight: 35 kg
- Rolling weight: 10 kg



→ **SPCC140WI**



The **SPCC140WI** consists of:

- **HYDRAULIC CABLE CUTTERS**

- Double-acting hydraulic cylinder
- Cutting blades of special steel surface and through hardened
- Manual lever: open and cut positions
- Cutting capacity: 140 mm diameter
- Cables to be cut specifications: see CUTTING CAPACITY
- Cutting force: 21 tons
- Hydraulic pressure: 700 bar
- Dimensions L x W x H: 678 x 188 x 320 mm
- Weight: 20kg
- Protection index: IP 44: Outdoor use.

- **CONTROL BOX**

- Power cable: 5m
- Powered by 24V battery
- Battery charge control (LED)
- Protection index: IP 44: Outdoor use.



Battery connection

3 LEDs to indicate battery charging status

5m electric cable to the tool

- **3 - BUTTON REMOTE CONTROL**

- 2 x 1.5V batteries (AAA)
- Coded radio with unique encoding
- Usable up to 150m
- indication (LED)



LEDs for cutting statuses

3 boutons (ON, OFF, VAT)

Warning

- **NiMH battery :**

- Voltage: 24V 3Ah
- LED charging indicator
- Autonomy: 15 to 20 cuts



Battery charge indicator

- **STORAGE CASE ON WHEELS - COMPOSITION**

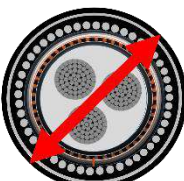

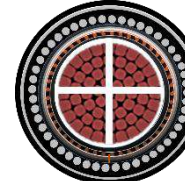
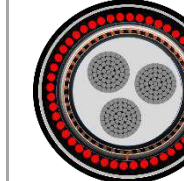
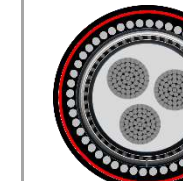
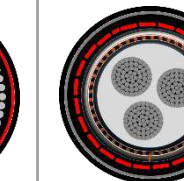
Compartmentalized storage box containing all the equipment for the VAT. (Verification of the Absence of Voltage).

- Cutting tool
- 1 x 24V batterie
- 1 fast charger
- 2 straps for hanging the tool in tunnels. Length: 2m
- 1 explosion-proof tarpaulin: 0.7m x 1m
- Operating instructions
- External dimensions L x W x H: 687 x 528 x 376 mm
- Total weight: 35 kg
- Rolling weight: 10 kg

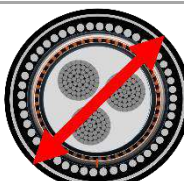
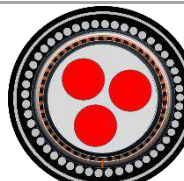
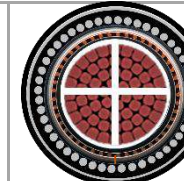
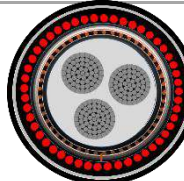
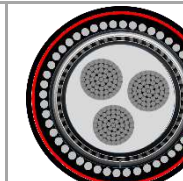
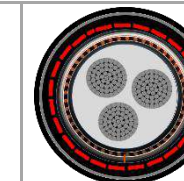


H. CUTTING CAPACITY

→ SPCCS100SI

					
Overall diameter	Maximum total cross-section of conductors		Round steel wire armature	Steel strip armature	Flat steel wire armature
Up to 100 mm	1300 mm ² Aluminum 3x240 mm ² Copper		NO	Thickness up to 2 mm	Thickness up to 2 mm

→ SPCCS140WI and SPCC140WI

					
Overall diameter	Maximum total cross-section of conductors		Steel wire armature	Steel strip armature	Flat steel wire armature
Up to 140 mm	2500 mm ² Copper or Aluminum		Up to Ø 4 mm	Thickness up to 4 mm	Thickness up to 4 mm

I. IMPEMENTATION

I. TOOL INSPECTION (before each implementation)

- **BATTERY:** Use a charged battery BEFORE each OPERATION.
- **BLADE PEAK:** If the slightest discrepancy is observed (splinter, broken tip, serrated edges, etc.), the peak should be replaced.

Note: The batteries in the remote control should be replaced at each annual inspection.

II. EASE OF USE

SPCCS100SI :

- Check that the excavation is large enough to position the tool horizontally.
- Lay the wireless receiver-control box flat on the edge of the excavation.
- Earth the tool by connecting the braid to the ground rod and to the ground
- Ensure correct positioning of the tool on the cable (Figure 1). Avoid incorrect positioning (cable at the end of the blades) which would produce a poor quality cut. Use the fixing devices provided.
- Put the lever in "CUT" position.
- Connect the wireless receiver-control unit to the tool
 - Raise the cap of the socket at the top of the tool.
 - Insert the plug at the end of the control box wire, respecting the polarization.
 - Lock the socket with the toggle lever.
- Place the explosion-proofed tarpaulin on the tool.

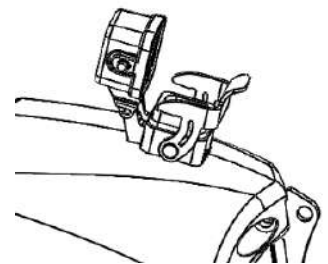
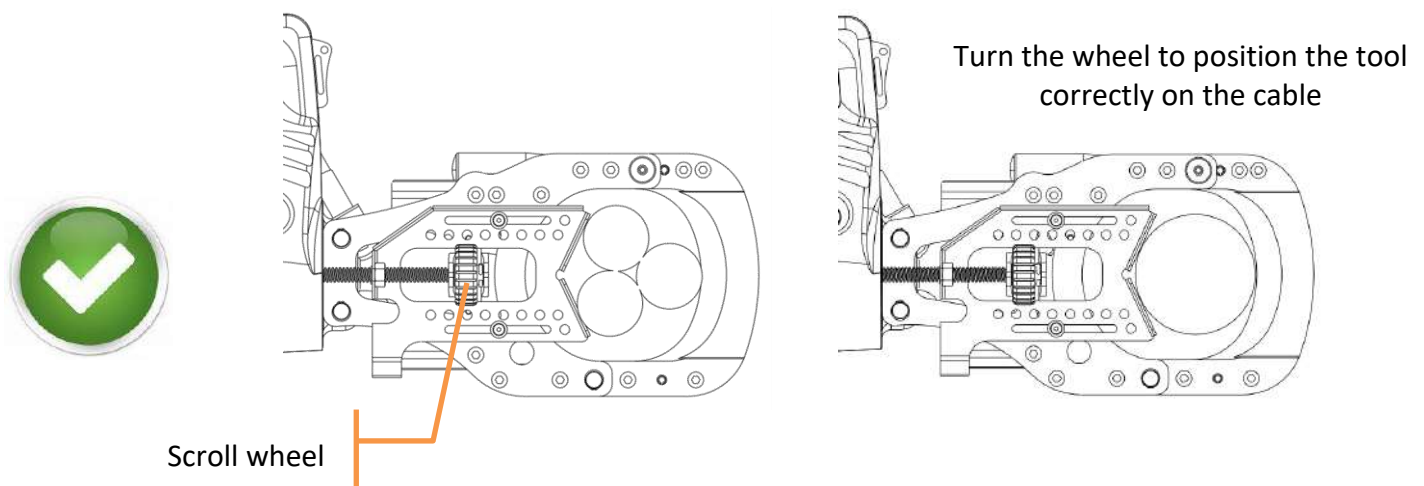


Figure 1: Correct Cable Positioning

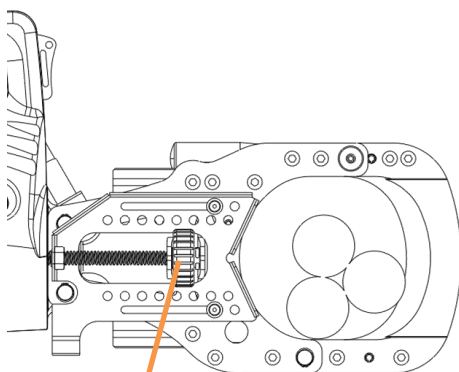
SPCCS140WI and SPCC140WI:

- Check that the excavation is large enough to position the tool horizontally.
- Lay the wireless receiver-control box flat on the edge of the excavation.
- Earth the tool by connecting the braid to the ground rod and to the ground (if earthed)
- Ensure correct positioning of the tool on the cable using the pre-positioning system (see below). The cable should be centered in the middle of the blade. If unipolar cable, the 3 phases must be gathered together and held by means of a clamp, tape or other in order to cut the 3 phases at the same time.
- The tool must be positioned perpendicular to the cable.

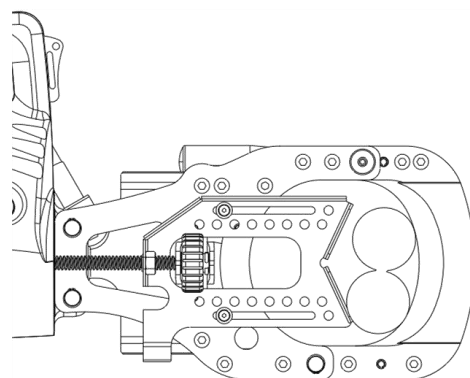
Correct position of the tool on the cable:



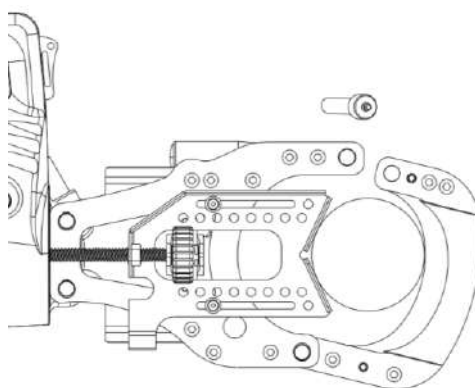
Incorrect position of the tool on the cable:



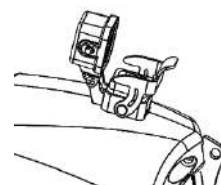
Scroll wheel



Important: Do not forget to put the pin to close the blades. Serious risk of damage to the tool!



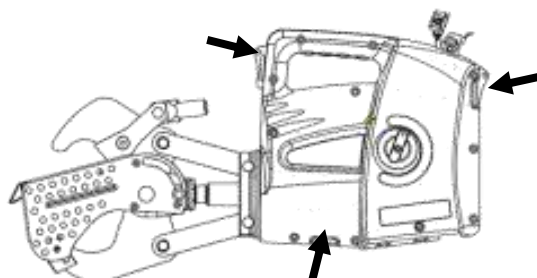
- Put the lever in "CUT" position.
- Connect the wireless receiver-control unit to the tool
 - Raise the cap of the socket at the top of the tool.
 - Insert the plug at the end of the control box wire, respecting the polarization.
 - Lock the socket with the toggle lever.
- Place the explosion-proofed tarpaulin on the tool.



(See implementation **instructions** on the **operating mode document** placed in the lid of the transport case).

III. PRECAUTIONS

- Mark out and take the necessary measures to prohibit access to anyone in the operation area.
- In the case of work in a tunnel or requiring the tool to be held at height:
Fix the tool using straps. 3 fixing points can be used for this purpose



IV. EXECUTION: SPIKING + CUTTING

- Install a battery on the wireless receiver-control unit. Battery charge check is automatically performed. Three LEDs identify the charge level (**Figure 2**):
- Green light + double high-pitched beep: charge OK
- Orange light + double high-pitched beep: Low charge with, depending on the age of the battery, risk of insufficient capacity. It is advisable to replace it with a charged battery to be able to make a complete cut.
- Red light + long low beep: Insufficient charge to start the cut. It is necessary to replace the battery.



Figure 2

- Position yourself at least 8 meters from the tool with the remote control unit.
- Press ON to activate the remote control. LED 4 lights up as soon as the remote control establishes the radio connection with the control box.
- If the remote control remains inactive for 1 minute, it goes into standby and it will be necessary to press ON again to reactivate it.
- Start the cutting cycle by pressing the start button (bottom button).

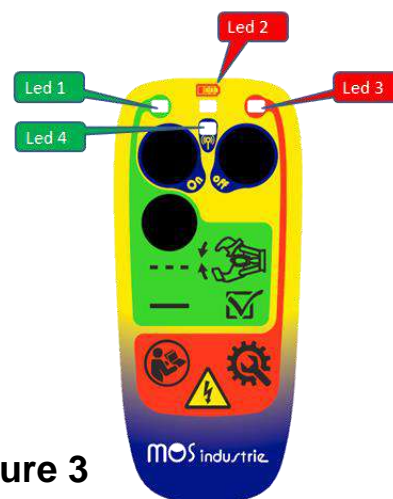


Figure 3

- The flashing of the green LED 1 (figure 3) accompanied by a high-pitched alternating sound signal indicates that the cut is progressing correctly. Maintain pressure on the button during the whole cut.
- The end of the VAT is signaled when the high-pitched alternating sound signal becomes continuous and the green LED 1 remains lit. (Time of the complete cycle: about 180 s).

Note 1: During VAT, LED 4 flashes to indicate that it is in radio communication with the control box.

- In the event of a malfunction or battery fault, the red LEDs 3 & 4 light up and are accompanied by a low-pitched sound. In this case, refer to the coding table in paragraph V to identify the fault code.

CAUTION: The appearance of a fault code implies that stitching and cutting are incomplete.

Make a stop point and inform the operations manager. This may involve the use of another tool to perform another cut as far as possible from the first tool already in place

V. BLADES OPENING:

- Place the decompression lever on the tool in the **OPEN position**
- Operate the tool with the remote control unit until the blades are fully open.
- Release the tool from the cable. (remove the pin before for SPCCS140WI & SPCC140WI)
- Remove the battery and store the remote control.

VI. CHECKING - CLEANING:

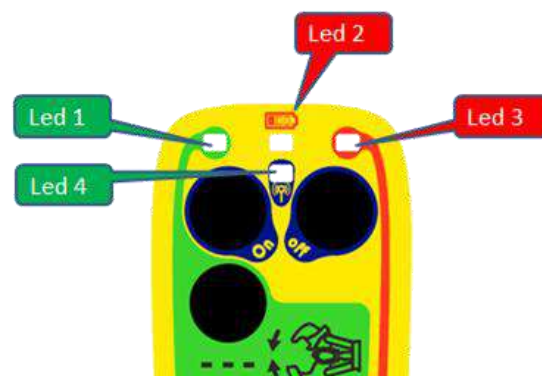
- Clean the two blades, using a wire brush, as well as the spike to remove the residues of cable or sand.
- Check the perfect condition of the blades.
- If necessary, clean the tool with a brush and petroleum (exclusively).
- Charge the batteries if only one indicator LED is showing.
- Disconnect the tool from the control box before storing it in its packaging.

VII. Remote control LED code table:

REMOTE DISPLAY				FAULT CODE	MEANINGS
LED DISPLAY		BUZZERS			
LED 1	— — —	Slow flashing	— — — Intermittent high-pitched sound	VAT	VAT in progress
	——	Fixed	—— Continuous high sound	End of VAT	VAT completed
led 2	——	Continued	—— Continuous bass sound	Code 1	Battery discharged Cannot cut
	— — —	Blink		Code 2	Low remote control batteries
LED 3	— — —	1 flash	—— Continuous bass sound	Code 3	Permanent OPEN position Check the position of the valve
	— — — — —	2 flashes		Code 4	Abnormal cutting time (incomplete cutting)
	— — — — — — — — —	3 flashes		Code 5	Positioning fault (Incomplete cut)
	— — — — —	5 flashes		Code 6	Insufficient battery to complete the cut (incomplete cut)
	——	Continued		Code 7	High pressure safety (incomplete cut)
LED 4	- - -	Regular flashes			Ongoing radio broadcast
	——	Continued			Remote control in use

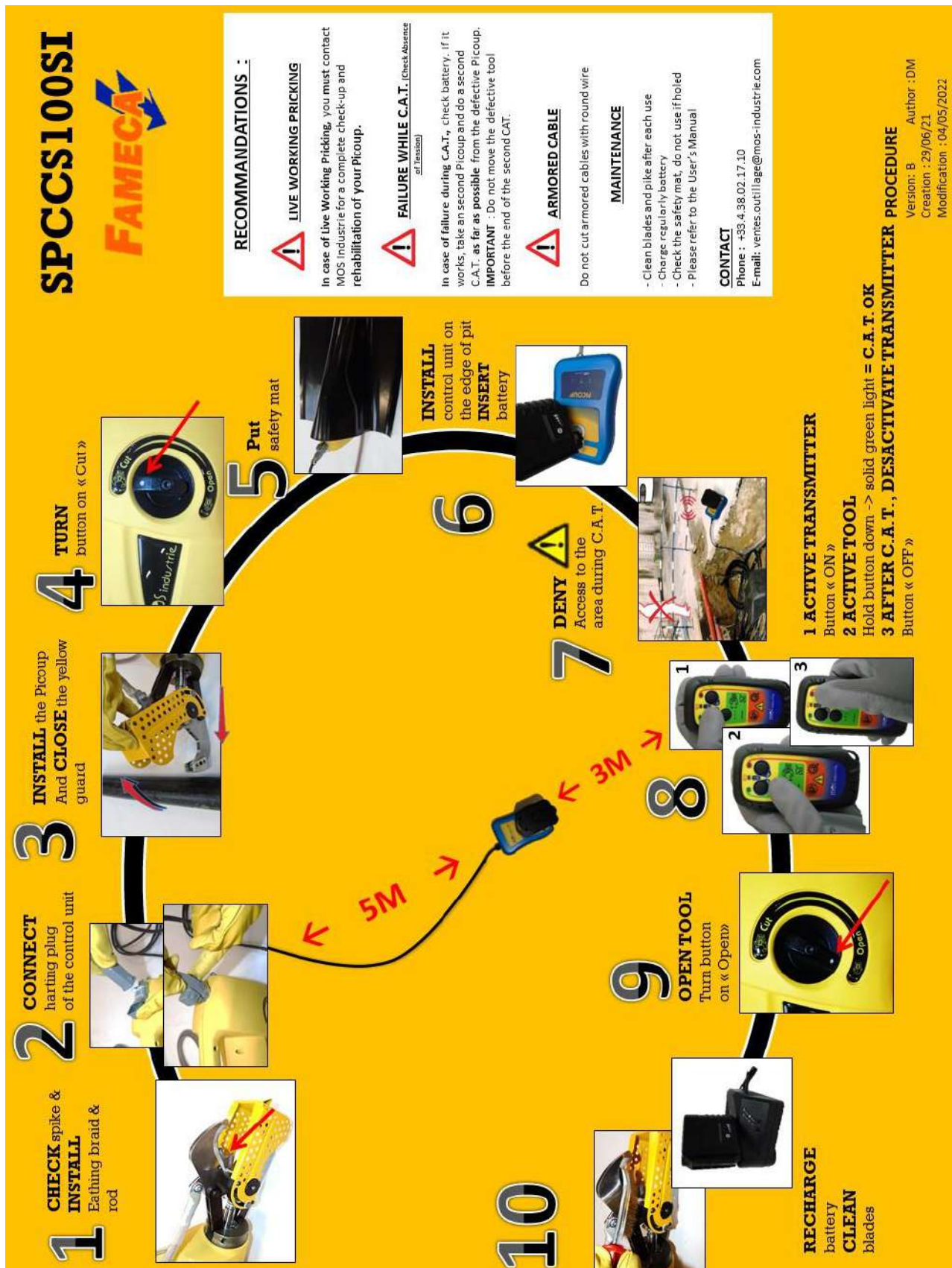
Note: The cancellation of a fault code is done by disconnecting the battery and repositioning it on the radio receiver unit.

4 seconds are needed to initialize the system in order to delete the fault code on the remote control and to be able to use it again.



J. OPERATING MODE

→ SPCCS100SI :



SPCCS140WI



RECOMMENDATIONS:

⚠ LIVE WORKING PRICKING:

In case of Live Working Pricking, you must contact MOS Industrie for a complete check-up and rehabilitation of your Picoup.



FAILURE WHILE CAT :

In case of failure during CAT, check battery. If it works, take a second battery and do the a second CAT as far as possible from the defective Picoup.

IMPORTANT : Do not move the defective tool before the end of the second CAT.



ARMORED CABLE:

cut armored cables with maxi 6mm round wire

MAINTENANCE:

- Clean blades and pike after each use
- Charge regularly battery
- Check the safety mat, do not use if holed
- Please refer to the User's Manual

CONTACT:

Tel: +33 (0)4.38.02.17.10

E-mail:

ventes.outillage@mos-industrie.com

PROCEDURE

Version : B Author : DM
Creation : 28/06/2021
Modification : 04/05/2022

1 ACTIVE TRANSMITTER Button « ON »

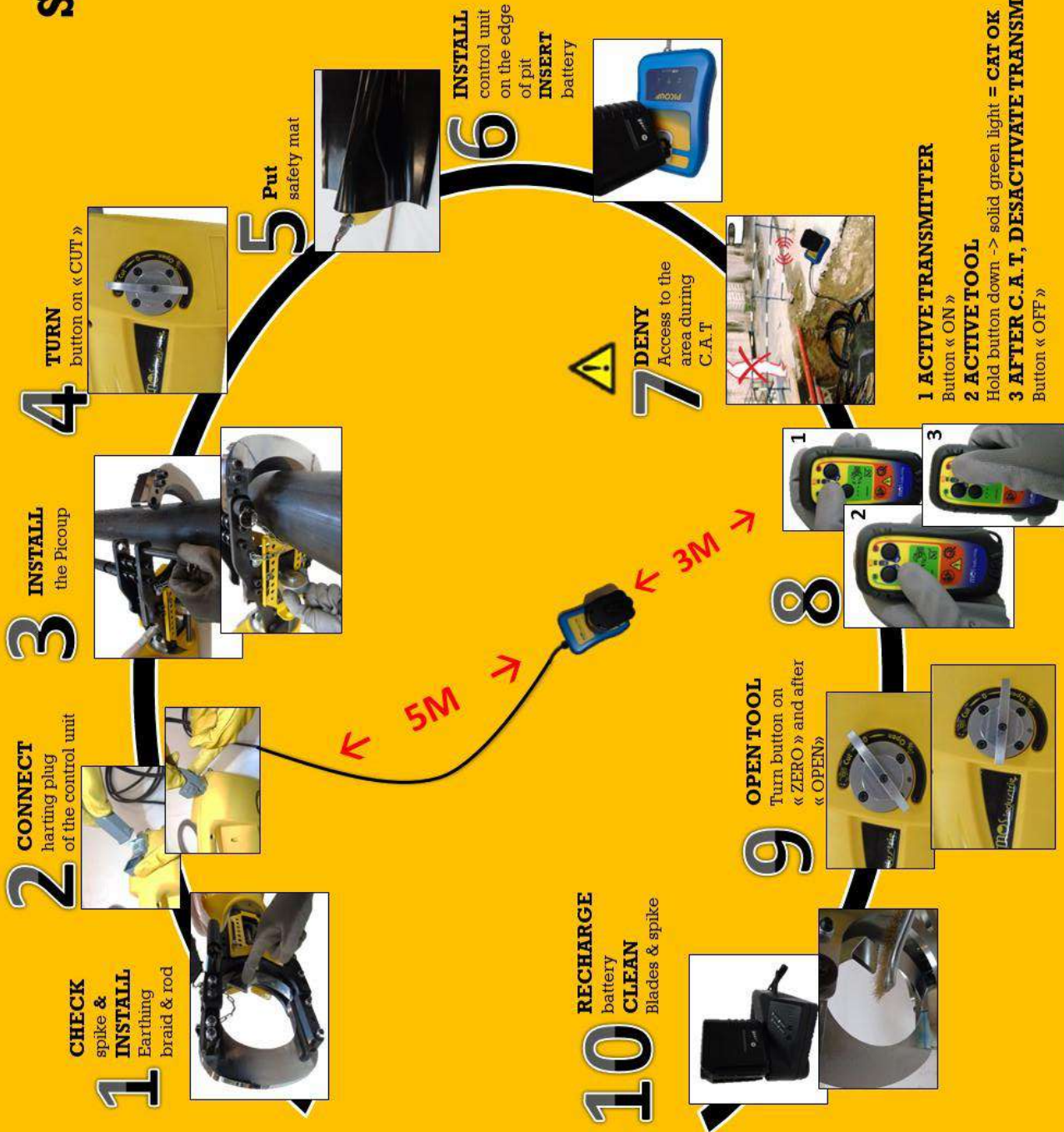
2 ACTIVE TOOL Hold button down -> solid green light = CAT OK

3 AFTER C.A.T, DESACTIVATE TRANSMITTER Button « OFF »

1 ACTIVE TRANSMITTER Button « ON »

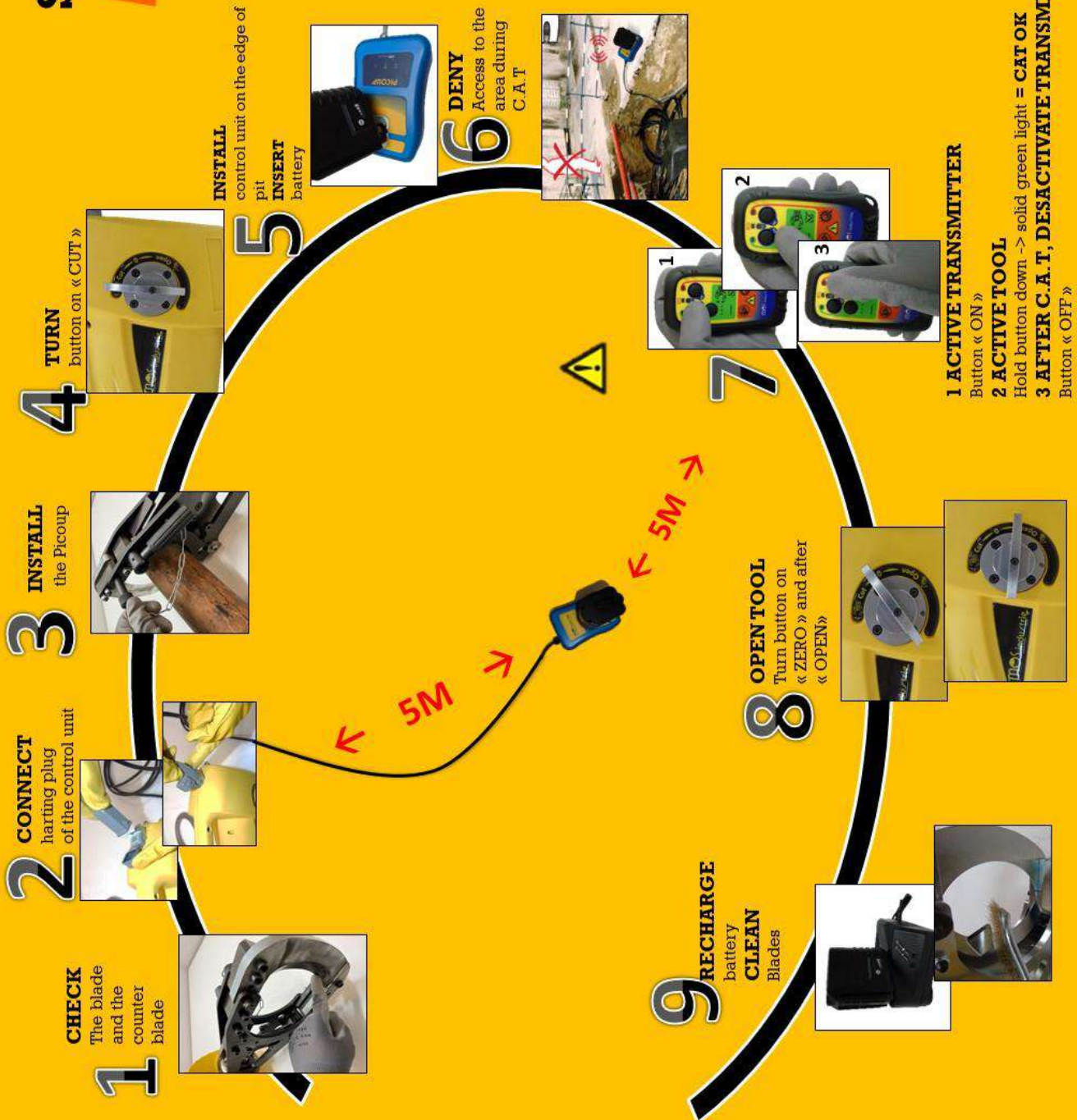
2 ACTIVE TOOL Hold button down -> solid green light = CAT OK

3 AFTER C.A.T, DESACTIVATE TRANSMITTER Button « OFF »



SPCC140WI

FAMECA



PROCEDURE
Version : B Author : DM
Creation : 18/06/2021
Modification : 31/08/2022

K. PICOUP MAINTENANCE

The PICOUP, SAFETY equipment must be regularly inspected, in order to guarantee operators the constant maintenance of its level of reliability.

Only MOS industrie is authorized to provide MAINTENANCE for your PICOUP.

There are companies approved outside mainland France.

During this intervention, the tool is completely disassembled. All seals and other wearing parts are systematically replaced.

Mechanical parts such as: blades, spikes, etc. are checked and replaced on request.

Maintenance plan:

- Annual check of the hydraulic pressure, the correct operation, the condition of the blades, the spike and the various sensors present on the tool. This operation allows the tool to be operationally maintained. Kit available as an option.

L. WARRANTY: ELECTRO-HYDRAULIC MATERIAL

Purpose: This document describes all the terms of the applicable warranty for the tools of PICOUP. It supplements our current GCS.

1. Application domain:

SPCCS 100 SI / SPCCS 140WI / SPCC 140 WI

In general, any integrated electro-hydraulic product (without hydraulic hose).

2. Standard warranty: 2 years.

Our equipment is guaranteed against any design, manufacturing or material defect for a period of 2 years from the date of delivery "ex works". **See our terms and conditions of sale.**

3. Warranty validity:

This guarantee applies to all the equipment mentioned in §1.

It concerns the replacement of spare parts, labor included, subject to use in accordance with the manufacturer's instructions, excluding wearing parts.

Warranty validity according to these two mandatory points:

- Compliance with routine maintenance according to the equipment manual
- Compliance with operating procedure and types of cables

4. Out of Warranty:

Hot tapping:

- Rehabilitation of parts following power tapping.
- Warranty retained on hydraulic unit and control box subject to:
 - Use in accordance with the procedure
 - Use on networks protected by a circuit breaker
 - The grounding of the tools in accordance with the operating mode and/or with improved grounding (saline water) for land with an insufficient ohmic value
 - The use of a tool with blades and blade spike conforming to the origin of the material delivered.
 - Rated voltages on the product sheets.

Bade use:

- Malfunctions related to improper use: non-compliant electrical connections, striking mechanical parts with a hammer (blade, counter-blade, blade guide), non-compliance with the operating mode, use of a battery or charger other than those provided by Mos Industrie.

- Use not in accordance with the description of the operating mode
- Repair or replacement of parts due to a proven lack of maintenance of the equipment.
- A malfunction of the tool due to complete or partial disassembly
- Of a material left to the weather which would result in a proven oxidation

Consumables:

- Batteries, blades, seals and sealing rings, grounding strap, blade guide.

Consumables:

- Batteries, blades, seals and sealing rings, earthing braid, blade guide.

5. Loss of warranty:

- Equipment over 2 years old
- Tool having been dismantled by a third party other than MOS Industrie or an organization approved by MOS Industrie.
- Tool having carried out a tapping under voltage and not returned for repair to MOS Industrie or organization approved by MOS Industrie
- Tool having undergone a modification not approved by Mos Industrie
- Tool that has been misused §4
- Tool not maintained
- User negligence.

6. Warranty Terms:

MOS Industrie reserves the right, in the event of equipment under warranty, to choose between replacement or repair. The replacement will be made with identical or similar equipment, on the sole decision of MOS Industrie. A repair or replacement does not give the right to extend the warranty period. This will be considered as expired on the anniversary date.

In general, the warranty does not entail any acceptance of direct or indirect liability for any damage caused to property or persons due to defective products.

As a result, it does not in any way lead to the possibility of a claim for damages or compensation of any kind whatsoever. In any event, the manufacturer's liability is limited to the value of the equipment sold.

7. Settlement of disputes, applicable law.

The applicable law is French law. In the event of a dispute which could not be settled amicably, the Commercial Court of Paris has sole jurisdiction, even in the event of multiple defendants, relatedness or intervention.

M. MATERIAL LIST

→ SPCCS100SI:

- | | |
|---|--|
| <input type="checkbox"/> 1 SPCCS100SI cable spike and cutter | <input type="checkbox"/> 1 carrying case with operating instructions |
| <input type="checkbox"/> 1 spare spike | <input type="checkbox"/> 1 Earthing cable |
| <input type="checkbox"/> 1 receiver box – wireless control | <input type="checkbox"/> 1 Ground rod |
| <input type="checkbox"/> 1 remote control (2 batteries 1.5v AAA) | <input type="checkbox"/> 1 Earth clamp |
| <input type="checkbox"/> 1 Battery 24V Ni-MH 3Ah | <input type="checkbox"/> 1 Explosion-proof tarpaulin |
| <input type="checkbox"/> 1 220/24 volt charger for Ni- MH battery | <input type="checkbox"/> 1 User Manual (this document) |
| | <input type="checkbox"/> 1 Operating Mode |

→ SPCCS140WI:

- | | |
|--|--|
| <input type="checkbox"/> 1 SPCC140WI cable spike and cutter | <input type="checkbox"/> 1 220/24 volt charger for Ni- MH battery |
| <input type="checkbox"/> 1 receiver box – wireless control | <input type="checkbox"/> 1 Earthing cable |
| <input type="checkbox"/> 1 remote control (2 batteries 1.5v AAA) | <input type="checkbox"/> 1 Battery 24V Ni-MH 3Ah |
| <input type="checkbox"/> 1 Earth clamp | <input type="checkbox"/> 1 carrying case with operating instructions |
| <input type="checkbox"/> 1 User Manual (this document) | <input type="checkbox"/> 1 spare spike blade |
| <input type="checkbox"/> 1 Operating Mode | <input type="checkbox"/> 1 Ground rod |

→ SPCC140WI:

- | | |
|--|--|
| <input type="checkbox"/> 1 SPCC140WI cable spike and cutter | <input type="checkbox"/> 1 220/24 volt charger for Ni- MH battery |
| <input type="checkbox"/> 1 receiver box – wireless control | <input type="checkbox"/> 1 Batterie 24V Ni-MH 3Ah |
| <input type="checkbox"/> 1 remote control (2 batteries 1.5v AAA) | <input type="checkbox"/> 1 carrying case with operating instructions |
| <input type="checkbox"/> 1 User Manual (this document) | <input type="checkbox"/> 1 Operating Mode |

N. SAFETY DATA

Identification of hydraulic oil: **TOTAL EQUIVIS XV 32**

Specific risk(s) :

Under normal conditions of use, mineral oils and other components of this product do not present an acute poisoning hazard.

If the skin is affected by a high-pressure jet, there is a risk of introduction into the body.

The injured person must be transported to a hospital even in the apparent absence of injury.

O. POISON CONTROL CENTRES: CALL NUMBERS

Angers	02.41.48.21.21	Bordeaux	05.56.96.40.80	Lille	0 800 59 59 59
Lyon	04.72.11.69.11	Marseille	04.91.75.25.25	Nancy	03.83.22.50.50
Paris	01.40.05.48.48	Rennes	02.99.59.22.22	Strasbourg	03.88.37.37.37
Toulouse	05.61.77.74.47				

IMPORTANT

IN THE EVENT OF PITTING A LIVE CABLE, it is imperative to contact us to carry out a COMPLETE CHECK OF THE TOOL AND ITS REPAIR.



HIGH PRESSURE EQUIPMENT

Recommended periodic CHECKING frequency: ANNUALLY

INITIAL INSPECTION CERTIFICATE

Tool No.: _____ Name: _____ Date: _____ Visa: _____

+ _____

