

Cougartron PowerOne

User Guide



Original instructions

Read this guide before using the equipment

Retain this guide for future use

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Purpose of manual

This manual enables safe and efficient use of Cougartron Power Series devices. This manual is part of the device and must be stored where it is always accessible to operating personnel.

The operating personnel must carefully read and understand this manual prior to beginning any work. The basic prerequisite for safe work is compliance with all safety instructions and operating instructions in this manual.

The local occupational safety regulations and general safety regulations for the area of application of the device also apply.

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1 Safety information

This section provides an overview of all safety aspects for the protection of people as well as safe and uninterrupted operation. Other task-related safety instructions are included in the specific sections.

1.1 Safety notices

The following safety notice formats are used in this manual. Safety notices are used at the start of sections or embedded in operating instructions.

Ensure you fully understand and comply with the notices in this manual.



DANGER

Risk of death!

Indicates a hazardous situation which, if not avoided, will almost certainly result in death or serious injury.



Caution

Risk of injury!

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



WARNING

Risk of serious injury or death!

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.



Additional information relating to the current section.



Notice

Indicates an important situation which, if not avoided, may seriously impair operations.

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1.2 Intended use

Cougartron Power Series devices are electrochemical weld cleaning devices for stainless steel and aluminium welds and surfaces.

The device is used to remove rust, oxidation, and other forms of contamination across a range of weld types and metal thicknesses.



WARNING

Danger due to misuse!

Misuse of the device can result in hazardous situations.

- The device is not designed for use on power generators or step down transformers.
- The weld cleaner must never be used on a workpiece whilst welding is being carried out on the same workpiece as this will damage the electronics in the weld cleaner.
- Only use the device in a well-ventilated space.
- Only operate the device if it is in an undamaged and orderly condition.
- Never deviate from the prescribed maintenance intervals.
- Only use parts that are specified in the technical data and approved for this
 device
- Never modify the device without consulting with the manufacturer.
- Never allow untrained personnel to operate the device.
- Never operate the device in potentially explosive atmospheres

1.3 Safety symbols

To draw attention to special hazards, the following symbols are used in this manual.

Table 1 - Safety symbols

Symbol	Meaning
4	Electrical hazards and electrical shock hazards
	General warning
	Heavy objects or equipment

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Symbol	Meaning
	Fire hazard
	Corrosive substance
<u>*</u>	Trip hazard
	Hot surface

1.4 PPE requirements

Gloves and eye protection must also be worn during installation and usage of the device.

Table 2 - PPE requirements

Symbol	Meaning
AC 120V/220V	The device uses mild acids
	Gloves must be worn to avoid prolonged skin contact with any of the fluids
	Goggles must be worn to prevent fluid splashing in the eyes
	Air extraction must always be used when working with the device

1.5 Safe operating area

A safe operating area around the device and work area should be maintained at all times. Non-operators and other persons should not approach the device or work area.

If you need to approach the device or work area, you must obtain permission from the operator to say that it is safe to do so.

Cougartron recommends a safe area of at least 2 m (6'6") from the operator while they are working.

You should also be aware of the main device location if it is located beyond this distance.

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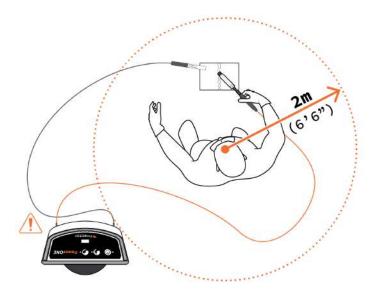


Figure 1 - Safe operating area

1.6 Residual risks

The device incorporates the latest technology and complies with current safety requirements. Nevertheless, there are some residual risks that require your attention. The following section lists the residual risks and the measures that result from them.

1.6.1 Electrical



WARNING

Danger of death due to electrical current!

There is an imminent risk of death by electrocution in the event of contact with live parts. Damage to the cable insulation or individual components can pose a lethal hazard.

- Only qualified electricians are authorized to work on the device.
- In case of damage to the cable insulation, immediately cut the power supply and initiate repairs or replacement.
- Keep moisture away from live components as it can result in a short circuit.

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1.6.2 Heat



WARNING

Risk of hot surfaces!

The metal around the weld and the brushes can get hot during the cleaning process. During use, the brush becomes extremely hot; +200°C (392°F).

- When operating the device, do not touch the brush.
- Do not place the brush near any flammable material.

1.6.3 Fire



WARNING

Risk of fire or flammable materials!

- Hydrogen gas (an invisible but explosive gas) might be generated while
 operating the device. Always use the device in a well-ventilated area with air
 extraction.
- Do not use the device near flammable substances or in areas where dense flammable gases, are likely to accumulate.
- The device produces an electric current that can generate small sparks between the brush and the work piece.

1.6.4 Corrosive



WARNING

Risk of corrosive substances!

A mild acid is used as part of the device cleaning process.

- Wear appropriate protective clothing.
- Gloves must be used to avoid prolonged contact with any of the fluids.
- Goggles must be worn when operating the device.
- Any fluid spilled on the skin must be washed off immediately.
- A Material Safety Data Sheet (MSDS) is available for all fluids and should be read before use. Contact Cougartron for more details.

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1.6.5 Tripping



WARNING

Risk of injury from trips or falls!

There is a risk of tripping on the 4m earth or handle cables.

If the cables cross any access through a work area, then all necessary precautions must be followed to warn and notify other users in the area.

Ensure that cables are routed safely away from heat sources or other potential hazards.

Ensure the cables are not trapped or pinched during use.

1.6.6 Heavy



WARNING

Care must be taken to use proper lifting techniques.

The PowerOne device weights 6.8 kg (15 lbs).

The device must be placed on a safe and stable area when being used.

Always use the machine handle to lift the device.

1.7 Responsibility of the owner

The owner is the person who operates the device for commercial or business purposes or allows a third party to use the device and bears legal responsibility for the product during operation for the protection of the user, personnel or third party. Note the device is not designed for use on power generators or step down transformers.

1.7.1 Owner responsibilities

The device is used for commercial purposes. The owner of the device is therefore subject to the legal responsibilities for occupational safety.

In addition to the safety instructions in this manual, the applicable safety regulations as well as occupational safety and environmental regulations must be implemented for the area of application of the device.

This applies to the following:

• The owner must be informed of the applicable occupational safety regulations and conduct a risk assessment to identify any additional risks that may arise due to the

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- special working conditions at the device location.
- This information must be implemented in the form of operating instructions for the operation of the device.
- During the entire period of device use, the owner must ensure that the operating instructions created reflect the current state of policy and adjust them if necessary.
- The owner must clearly regulate and define the responsibilities for operation, troubleshooting, maintenance and cleaning.
- The owner must ensure that all persons who work with the device have read and understood this manual.
- The owner must also train and inform personnel of hazards at regular intervals.
- The owner must provide personnel with the required protective equipment and must ensure that personnel wear the required protective equipment.
- The owner must ensure adequate ventilation of the installation site around the device and work area.
- The owner is also responsible for ensuring that the device is always in good working order. The following therefore applies:
 - The owner must ensure that the maintenance intervals described in this manual are observed.
 - The owner must ensure that the required fire protection measures are always compliant and functional.

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2 Hardware description

To operate the Cougartron Power Series devices, you should be familiar with the descriptions of the device parts and systems.

2.1 Overview

The Cougartron PowerOne is a high-speed weld-cleaning systems designed for regular workshop usage and are very efficient in removing dis-coloration, heat tints, and oxides on metal surfaces after TIG welding.

The lightweight and portable device provides excellent results when cleaning, passivating and electropolishing. This is all done without any grinding, dust generation, or hazardous acids, such as pickling paste.

This manual covers the following variants of the device:

Cougartron PowerOne WELC1128 (110-240 V ac 11Amps, 14 V ac/dc 80Amps, 50/60Hz)

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PowerOne- User Guide 2 Hardware description

2.2 Main parts

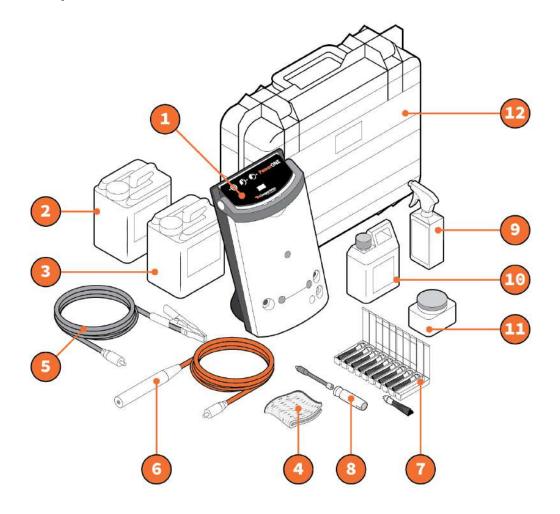


Figure 2 - PowerOne main parts

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Table 3 - PowerOne main parts

	Part number	Description
1	WELC1128	PowerOne Weld Cleaning Machine
2	WELC3050	CGT-350 Weld Cleaning Fluid 5L (1.3 Gal)
3	WELC3158	CGT-N5 HyPerformance Neutralising Fluid - 5 L (1.3 Gal)
4	WELC2149	CGT Microfibre Cloth 40 cm x 40 cm (16" x 16")
5	WELC2919	CGT 16mm2 lead,black with earth clamp 4m 80A (Xconnector)
6	WELC2907	CGT Lead 16mm2 with Handle Orange 4M 80A (Xconnector)
7	WELC3146	Cougartron Superbrush (M6, 50 A)- 10 pack
8	WELC2226	Cougartron wand/twist shroud set (for 1x M6 brush)
9	WELC2201	Cougartron spray bottle with sprayer 0.5 L (1 pt) (empty)
10	WELC5014	1 L (2 pt) Jerry Can with screw cap
11	WELC2005	Acid pot 500 ml (1 pt) with lid
12	WELC2064	Cougartron transport case - Large

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PowerOne- User Guide 2 Hardware description

2.3 Power switch

The Power switch is located on the rear of the main device.

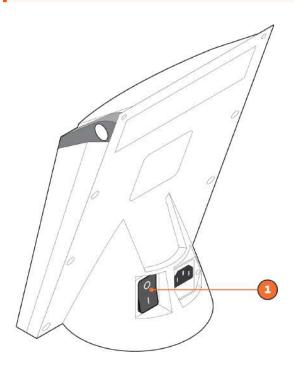


WARNING

Risk of serious injury or death!

Ensure the power switch is set to OFF before setting up the device and fitting the brush and handle.





1

Power switch

Figure 3 - Location of the power switch

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2.4 Dimensions



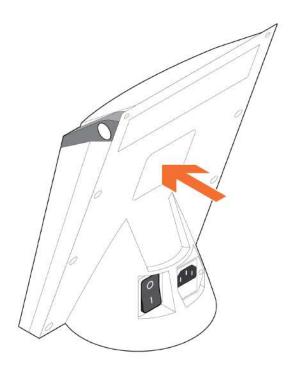
	Cougartron Power Series devices
1 Height	378 mm (3.1")
2 Width	220 mm (8.7")
3 Depth	170 mm (6.7")

Figure 4 - Main device dimensions

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PowerOne- User Guide 2 Hardware description

2.5 Device identification



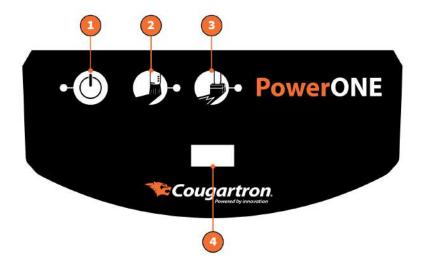
Device identification label
Location of device serial number

Figure 5 - Location of the device identification label

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2.6 Control panel

The control panel is located on the top of the device.



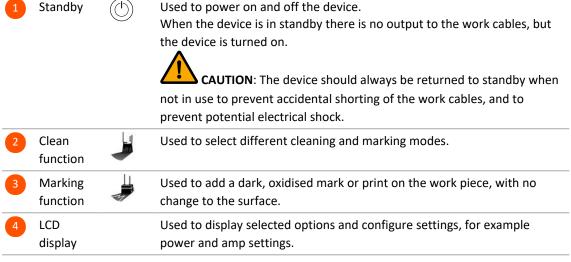


Figure 6 - Control panel and buttons

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3 Getting started

This section describes the initial steps required to start using the device.

3.1 Unpacking the device

It is important to keep the following information in mind while unpacking the device:

- 1. Unpack the device.
 - Dispose of the packaging correctly.
- 2. The following items are the minimum required to operate the device:
 - · The device
 - · A black cable with earth clamp
 - An orange cable with handle
 - Brush
 - · Wand with twist shroud
 - · Cleaning fluid
 - · Neutralising fluid

3.2 Turning the device on

- 1. Inspect the device for damage before installing or operating it.
 - If the device is damaged, do not use it. Contact your local Cougartron supplier to have the device inspected and repaired.
- 2. Use only single-phase AC power at 110 V/240 V.
 - Do not use the device with any other voltage.
 - For more information, see "Specifications" on page 43
- 3. Ensure that the device is located where it cannot easily fall and cause injury.
- 4. Ensure the following:
 - The device is placed on an even and stable surface.
 - The surface is clean and dry.
 - The cables do not cause a trip hazard.

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• The Power switch is in the OFF position.

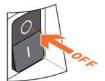


Figure 7 - Power switch in the off position

- 5. Attach the orange handle cable to the right-hand socket.
- 6. Screw the wand into the work handle of the orange handle cable until it is in the correct position.
- 7. Screw the brush into the wand until they are in the correct position. Ensure they are fully tightened.

To assist with removal of the brush after you have completed your work, Cougartron recommends applying a small amount of copper paste to the brush threads.

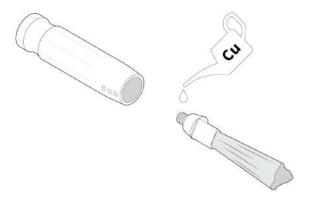


Figure 8 - Apply copper paste to the brush threads before assembly

8. Place the twist shroud over the brush and twist the twist shroud into the wand until it is in the correct position, leaving 5-10 mm of brush exposed at the end.

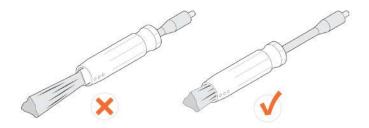


Figure 9 - Twist shroud fitted to the brush

- 9. Attach the black earth cable to the left-hand socket.
- 10. Connect the power cord to the power outlet.

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Caution

Risk of injury!

Ensure that your device type matches your power outlet.

Mismatched power types can damage the device, work piece, and potentially harm the operator

Damage caused by connecting to an incorrect power outlet could void your warranty.

► For more information, see "Specifications" on page 43

11. Attach the earth clamp of the black earth cable to the work piece.



Figure 10 - Earth clamp attached to work piece

12. Turn the power switch to the ON position.

The device starts in five seconds. After the device is ready for use, it displays *Standby* on the LCD display.

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Figure 11 - Power switch in the ON position

- 13. Select the correct operating function by pushing the clean button or polish button.
 - For more information, see "Cleaning weld surfaces" on page 26

3.3 Shutting the device down

1. Turn the power switch to the OFF position.

The LCD display turns off.



Figure 12 - Power switch in the OFF position

- 2. Disconnect the power cord from the power outlet.
- 3. Remove the earth clamp of the black earth cable from the work piece.
- 4. Disconnect the black earth cable from the left-hand socket.
- 5. Remove the twist shroud from over the brush and twist the twist shroud away from the wand.
- 6. Unscrew the brush from the wand.
- 7. Unscrew the wand from the work handle of the orange handle cable.
- 8. Disconnect the orange handle cable from the right-hand socket.
- 9. Rinse the thread on the brush and wand with water.
 - ► For more information, see "Cleaning the device" on page 33

4 Operations

This section describes common tasks required for the operation of the device.

4.1 Overview of applications

The device has different modes that the user can select for different tasks. The following tables provide some guidelines on what device configuration should be used with which types of applications.

Table 4 - PowerOne modes

Mode	Power	Current	Application
Clean Mode	14 V AC	5-30 A in 5 amp increments	Cleaning. 1-3 mm (1/8") thickness. All TIG welds.
Mark Mode	10.5 V AC	2-10 A in 2 amp increments	Marking. Any thickness.

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4.2 Selecting the brush

The device can be used for effective cleaning of different sizes and shapes of work piece.

Table 5 - Selecting the brush

Device model	Part Number	Brush	Current
PowerOne	WELC3146	Superbrush 10 pack	50 A

For more information, see "Weld cleaning brush" on page 44

4.3 Cleaning weld surfaces

The clean and mark function uses AC current.

Use the clean function for the following tasks:

- Remove oxides
- · Remove rust
- · Remove discolouration after welding
- Re-passivate the Heat Affected Zone (HAZ) after welding

Use the mark function for the following task:

• Black mark stainless steel

Table 6 - Clean function modes: PowerOne

Mode	Power	Current
Clean Mode 1	10.5 V AC	5 A - 30 A
Clean Mode 2	14 V AC	5 A - 30 A
Mark Mode	10.5 V AC	2 A - 10 A

4.3.1 Selecting the clean function

To select the clean function, follow these steps:

- Press the clean button on the control panel.
 The LCD display shows that the device is in clean function, 14 V.
- 2. Press the clean button again to set the device to 10.5 V.

 The LCD display shows which mode the device is currently in.

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3. When not using the device for a short period, press the standby button to set the device to standby mode.

4.3.2 Cleaning the surface



Notice

If the whole surface of the brush is not in contact with the surface of the work piece, reduce the current.

If you notice a burning brush, black marks on the surface of the work piece, or excessive smoke, reduce the current and dip the brush in the fluid more regularly.



Caution

Risk of injury!

Avoid direct contact with all fluids used with the device. If fluids are spilled on the skin or face, wash them off with water immediately.

- ► For more information, see "PPE requirements" on page 7
- 1. Pour a small quantity of the cleaning fluid into a shallow container.

Place the container close to the work piece while using the clean function. Only use recommended fluids.

- For more information, see "Weld cleaning fluids" on page 45
- 2. Dip the brush into the cleaning fluid momentarily, until the brush is wet.

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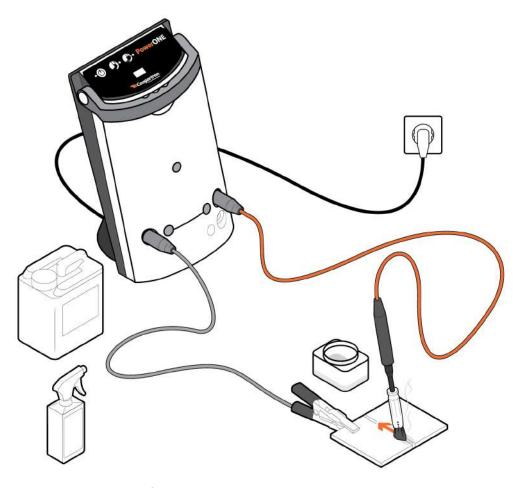


Figure 13 - Device set up for cleaning

- 3. Apply the wetted brush to the weld area to be cleaned and proceed in a circular motion along the weld seam. Do not use excessive pressure. For the best results use light strokes.
 - Ensure that the brush and work piece stay wet with the cleaning fluid during operation.
 - Apply the fluid only for as long as necessary to remove discolouration. Prolonged localised application can cause the work piece to overheat and damage the material.
 - Light sparking may occur where the brush comes in contact with the work piece, particularly on higher power settings. This is normal. Too much sparking for a long time in one area may cause pitting or corrosion.



Caution

Risk of injury!

Do not touch the brush as it might be very hot.

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4. When the surface has the desired finish, press the standby button to put the device in standby mode.

- 5. Place the brush on a clean, non-conductive and non-flammable surface.
- 6. After use, and when the brush is cool, fully wash the brush with clean water to remove all traces of the cleaning and polishing fluid.
- 7. When done, turn the power switch to the OFF position.

4.4 Marking surfaces



Notice

For marking, you need a marking set.

For more information, see "Marking sets and accessories" on page 45

The marking function uses AC current.

Use the marking function for the following task:

• Add a dark, oxidised mark or print on the work piece, with no change to the surface.

Table 7 - Power and current requirements for marking modes

Mode	Power	Current
Mark Mode	10.5 V AC	1 A - 10 A

4.4.1 Selecting the marking function

To select the marking function, follow these steps:

- 1. Press the marking button on the control panel.
 - The LCD display shows what function is selected.
- 2. When not using the device for a short period, press the standby button to set the device to standby mode.

4.4.2 Marking and etching the surface



Caution

Risk of injury!

Avoid direct contact with all fluids used with the device. If fluids are spilled on the skin, wash them off with water immediately.

► For more information, see "PPE requirements" on page 7

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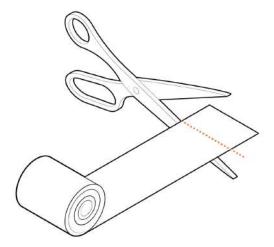


Notice

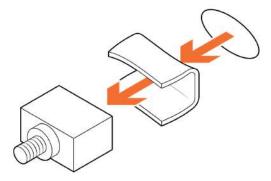
For marking and etching with the device, you need a marking set.

For more information, see "Marking sets and accessories" on page 45

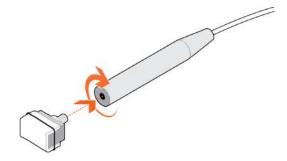
1. Take a piece of marking white felt.



Assemble the marking head by folding the felt over the carbon block.Use the rubber ring to secure the felt.



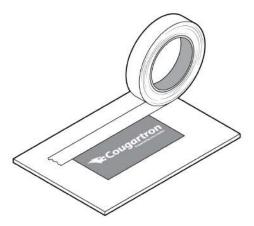
3. Unscrew the wand and weld cleaning brush from the handle and screw the marking head in.



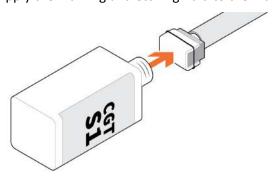
4. Place the marking stencil on the work piece.

Use tape to secure the stencil.

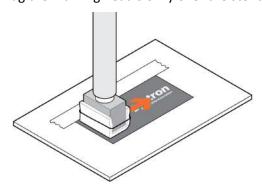
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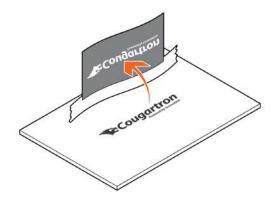
5. Apply the marking and etching fluid to the marking head.



6. Drag the marking head slowly over the stencil.



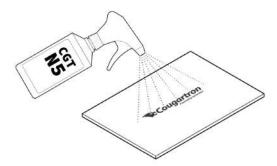
7. Remove the stencil.



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8. Apply a small amount of neutralizing fluid to the marked area of the work piece.



9. Wipe the marked area with a cloth.



- 10. Press the standby button to put the device in standby mode.
- 11. Place the marking head on a clean, non-conductive and non-flammable surface.
- 12. After usage and when the marking head is cool, fully wash the white felt with clean water to remove all traces of the etching fluid.
- 13. When done, turn the power switch to the OFF position.

5 Service and maintenance



Caution

Risk of injury!

The device must only be repaired by a qualified and trained person.

This section describes common tasks required for the service and maintenance of the device.

5.1 Cleaning the device

The following materials are required to clean the device:

- Clean water/running water installation
- Copper grease
- Small wire brush

Follow these steps to clean the device and ensure optimised functionality:

- 1. Ensure that the power switch is turned to the OFF position.
 - The LCD display on the control panel turns off.
- 2. Ensure the brush has cooled down and is not hot.
- 3. Remove the wand from the work handle.
- 4. Remove the twist shroud from the wand.
- 5. Remove the brush from the wand.
- 6. Rinse the brush, twist shroud, and wand with clean water to remove solution.

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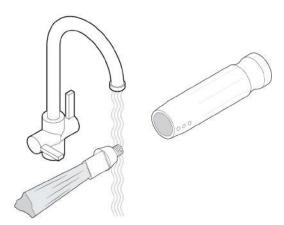


Figure 14 - Rinsing the brush

- 7. Flush the earth clamp on the black earth cable with clean water to remove the solution and prevent corrosion.
- 8. A small wire brush may be used on the threaded connections to remove any residue or dried acid.
- 9. When all parts are dry, apply a small amount of copper paste to the threads of the brush.
 - This keeps out the acidic solution from the joints and helps the high current to flow through the connection.
- 10. Use a dry cloth or paper towel to wipe fluid splashes off the device.
- 11. Assemble all parts.
 - For more information, see "Unpacking the device" on page 21

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5.2 Inspecting the device

Table 8 - Inspecting the device

Task	Action	Frequency
Check device case	Visual check of device case and body. Ensure there are no holes or cracks where fluids can enter and damage the electronics.	Monthly
Check cables	Visual check of power input cable and black and orange work cables. Ensure there is no damage to the insulating cable covering, especially at the ends of the cables. Ensure that the connections are clean and free of corrosion and arc damage.	Weekly
Check wand and shroud assembly	Ensure the black insulating material on the wand is not damaged. Ensure the shroud is not worn or melted.	Weekly

[►] For more information, see "Replacing parts" on page 35

5.3 Replacing parts

For optimal results, use only Cougartron brushes, shrouds and fluids.

Consumable supplies are available from authorised Cougartron distributors.

For more information, see "Spare parts and part numbers" on page 44

5.3.1 Cougartron brushes

The brushes wear down with use and should be replaced when the bristles reach approximately 12 mm (1/2") in length.

For more information, see "Weld cleaning brush" on page 44

5.3.2 Cougartron twist shrouds

The insulating twist shroud may become damaged, or heat affected. If this happens, replacement shrouds may be purchased.

► For more information, see "Weld cleaning brush accessories" on page 44

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5.3.3 Cougartron fluids

A range of genuine Cougartron fluids is available. Please check with your local Cougartron distributor for details of fluids available in your region.

Types of fluids available:

- Weld cleaning fluids used for cleaning and, optionally, polishing
- Neutralising fluids used to ensure removal of all cleaning fluid residue
- Finishing fluid used to provide a clean, mark-free finish
- Marking fluids can be used with custom stencils to indelibly mark metals
- ► For more information, see "Weld cleaning fluids" on page 45

5.4 Spare parts diagram

The following diagram shows the individual parts of the device with their part number.

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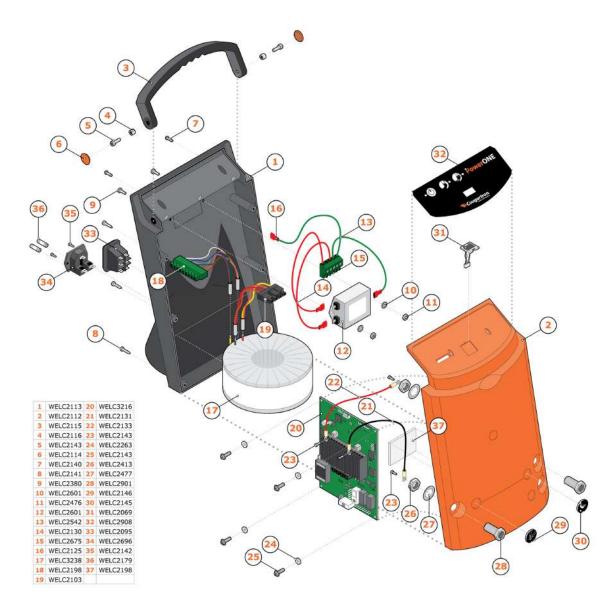


Figure 15 - Spare parts diagram

5.5 Disposal

The symbol on the device, the accessories, or packaging indicates that this device should not be treated as unsorted municipal waste but should be collected separately.

Dispose of the device according to local guidelines and regulations. Use approved facilities and services for recycling electrical and electronic equipment.

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The packaging is made up of environmentally friendly materials that may be disposed of through your local recycling facilities. By disposing of the packaging and packaging waste in a proper manner, you help in avoiding possible environment and public health hazards.

The symbol on the packaging indicates that the packaging is made of PAP.

6 Troubleshooting



Caution

Risk of injury!

The device must only be repaired by a qualified and trained person.

This section describes common troubleshooting solutions.

If the device is not operating correctly, please refer to the error codes, troubleshooting, and repair sections before contacting your local Cougartron supplier.

Error: LCD display illuminated, but no power at brush tip.

• Cause: Device malfunction.

Solution:

- 1. Remove the orange work cable and the black earth cable from the device.
- 2. Check the output voltage with a multimeter it should read between 10.5 -14 V AC/DC depending on the function mode the device is in.
- 3. If there is no current while the device is in work mode, please contact your local Cougartron distributor.

Error: LCD display illuminated, but no power at brush tip.

• Cause: Dirty device elements.

Solution:

- 1. Disassemble the wand from the work handle and the brush from the wand.
- 2. Use a wire brush to clean the connections between the cleaned elements.
- 3. Add copper grease to the threads of all the cleaned elements to improve the connection and keep out acidic residue.

Error: LCD display illuminated, but no power at brush tip.

• Cause: Dirty earth clamp.

• Solution:

- 1. Use a multimeter to check the connection between the tip of the earth clamp and the device connector on the black earth cable.
- 2. Clean the earth clamp of any acid residue or dirt. Use a wire brush to remove dirt.

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3. Add copper grease to the threads of all cleaned elements to improve connection and keep out any acidic residue.

Error: LCD display illuminated, but no power at brush tip.

• Cause: Cable or cable connector malfunction.

Solution:

- 1. Remove the orange work cable and the black earth cable from the device.
- 2. Use a multimeter to check the connection between the brush crimp and the device connector on the orange work cable.
- 3. If no connection is detected, please contact your Cougartron distributor.

Error: Power switch is turned on, but the LCD display is not working.

- Cause: Device is switched off.
- Solution: Ensure that the power switch is turned to the ON position.

Error: Power switch is turned on, but the LCD display is not working.

- Cause: Device is not connected.
- **Solution**: Ensure that the power cord is connected to the power outlet.

Error: Power switch is turned on, but the LCD display is not working.

- Cause: Power outlet malfunction.
- Solution: Ensure that the power outlet is working correctly.

6.1 Error codes

If an error occurs, the device goes into standby mode and displays an error code.

Clear the error message by pressing the standby button. If the error message appears again, the problem has not been fixed and you should contact your local Cougartron supplier.

Table 9 - Error codes

Error no.	Cause	Solution
E01	No voltage detection from transformer	Check thermal breaker at the rear of the machine
E021	Over Temperature Protection	Allow the machine to cool for 10 minutes
E022	Over Temperature Protection	Allow the machine to cool for 10 minutes

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Error no.	Cause	Solution
E023	Over Temperature Protection	Allow the machine to cool for 10 minutes
E03	Over Current Protection	Restart the machine, and try working again. If the fault occurs repeatedly, then the machine needs to be returned for service
E05	Over Current Protection	Restart the machine, and try working again. If the fault occurs repeatedly, then the machine needs to be returned for service

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7 Specifications

This section details the specifications of the device.

7.1 List of specifications

Parameter	Unit
Part number	WELC1128
Model Name	PowerOne
Application	Applicable for TIG, MIG and other weld types on stainless steel and aluminum surfaces.
Input power	110-240 V AC 50/60Hz 6.3 A
Output power	10.5-14 V AC/DC 30 A
Duty cycle with normal manual working process (not automated)	100% at 80 A
Technical life span	10 years
Weight device	6.5 kg (14.3 lbs)
Weight package	
Ambient storage temperature range	-50°C (-58°F) to +65°C (149°F)
Relative Humidity (RH)	0 - 70%
Ambient working temperature range	-15°C (5°F) to +40°C (104°F)

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7.2 Spare parts and part numbers

This section contains lists of common spare parts.

7.2.1 Weld cleaning device accessories

Table 10 - Weld cleaning device accessories

Code	Description	PowerOne
WELC2919	Cougartron lead with earth clamp black 4 m (13 ft), 80 A	Yes
WELC2907	Cougartron handle lead, orange 4 m (13 ft), 80 A	Yes
WELC2923	Cougartron extension lead, orange 4 m (13 ft), 80 A	Yes
WELC2924	Cougartron extension lead, black 4 m (13 ft), 80 A	Yes
WELC3021	Copper grease 20 g (0.7oz)	Yes
WELC2404	Cougartron transport Bag 40 x 20 x 26.5 cm (16 x 8 x 10 inch)	Yes
WELC2064	Cougartron transport case	Yes
WELC5006	Foam insert for WELC2064	Yes

7.2.2 Weld cleaning brush

Table 11 - Weld cleaning brush

Code	Description	PowerOne
WELC3146	Superbrush (M6, 50 A) - 10 pack	Yes

7.2.3 Weld cleaning brush accessories

Table 12 - Weld cleaning brush accessories

Code	Description	PowerOne
WELC2226	Cougartron wand/twist shroud set (for 1x M6 brush)	Yes
WELC2227	Cougartron twist shroud (for WELC2235 wand)	Yes
WELC2188	Cougartron wand/twist shroud set (for 2x M6 brush)	Yes
WELC2235	Cougartron wand only (M6 universal)	Yes
WELC2572	Cougartron double brush twist shroud - spare	Yes

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7.2.4 Weld cleaning fluids

Table 13 - Weld cleaning fluids

Code	Description	PowerOne
WELC3081	CGT-550 Weld Cleaning & Polishing Fluid - 1 L (1 qt)	Yes
WELC3048	CGT-550 Weld Cleaning & Polishing Fluid - 5L (1.3 Gal)	Yes
WELC3083	CGT-350 Weld Cleaning Fluid - 1 L (1 qt)	Yes
WELC3050	CGT-350 Weld Cleaning Fluid - 5 L (1.3 Gal)	Yes
WELC3165	CGT-N5 HyPerformance Neutralising Fluid - 500 ml (1 Pt)	Yes
WELC3158	CGT-N5 HyPerformance Neutralising Fluid - 5 L (1.3 Gal)	Yes

7.2.5 Weld cleaning fluid accessories

Table 14 - Weld cleaning fluid accessories

Code	Description	PowerOne
WELC2005	Acid pot 500 ml (1 Pt) with lid	Yes
WELC2149	Cougartron microfibre cloth - 40x40 cm (16 x 16 inch) (black)	Yes
WELC2201	Cougartron spray bottle with sprayer 0.5 L (1 Pt) (empty)	Yes
WELC2092	Cougartron sprayer for spray bottle - orange	Yes
WELC2253	Tap for 5 L (1.3 Gal) weld cleaning fluids	Yes

7.2.6 Marking sets and accessories

Table 15 - Marking sets and accessories

Code	Description	PowerOne
WELC4045	Cougartron Marking Set with case	Yes
WELC4040	Cougartron marking block with adaptor	Yes
WELC4029	Cougartron marking block without adaptor	Yes
WELC4025	Cougartron carbon felt 75x40x4,6 mm (2.9x1.5 x 0.18") (10 pcs)	Yes
WELC4033	Cougartron white felt 75x40x3 mm (2.9 x 1.5x0.1") (10 pcs)	Yes
WELC4026	Cougartron yellow fabric 75x40 mm (2.9 x1.5") (10 pcs)	Yes
WELC4002	Cougartron O-ring for std marking block (pack5)	Yes

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7.2.7 Marking fluids

Table 16 - Marking fluids

Code	Description	PowerOne
WELC3115	Cougartron CGT-S1 Marking Fluid - 500 ml (1 pt)	Yes
WELC3116	Cougartron CGT-AL Marking Fluid - 500 ml (1 pt)	Yes
WELC3117	Cougartron CGT-MS Marking Fluid - 500 ml (1 pt)	Yes
WELC3118	Cougartron CGT-BR Marking Fluid - 500 ml (1 pt)	Yes
WELC3119	Cougartron CGT-CO Marking Fluid - 500 ml (1 pt)	Yes
WELC3133	Cougartron CGT-TI Marking Fluid - 500 ml (1 pt)	Yes
WELC3159	Cougartron CGT-SA Marking Fluid - 500 ml (1 pt)	Yes

7.2.8 Marking stencils and printers

Table 17 - Marking stencils and printers

Code	Description	PowerOne
WELC4007	Marking stencil - 40x75 mm (1.5 x 2.9")	Yes
WELC4008	Marking stencil - 60x100 mm (2.3 x 3.9")	Yes
WELC4009	Marking stencil - 100x150 mm (3.9 x 5.9")	Yes
WELC4113	Stencil: Cougartron with plastic frame 113x5 0mm (4.4 x 1.9")	Yes
WELC4938	Brother Stencil Printer - TD-4520DN - 106mm tape	Yes
WELC4942	Brother Stencil Printer - TD-4410D - 106mm tape	Yes
WELC4021	106 mm x 100 m (4" x 330 Ft) Marking Roll	Yes
WELC4043	PT-D600VP Brother Label Printer 18-24 mm (¾ - 1") tapes	Yes
WELC4284	PT-E550WVP Brother Label Printer 18-24 mm (¾ - 1") tapes	Yes
WELC4014	Cougartron Stencil tape, 18 mm x 3 m (¾ inch x 9 ft)	Yes

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Code	Description	PowerOne
WELC4015	Cougartron Stencil tape, 24 mm x 3m	Yes
WELC4339	PT-800 W Brother Label Printer 18-36 mm (¾ - 1 ½ inch) tape	Yes
WELC4016	Cougartron Stencil tape, 36 mm x 3 m (1 7/ 16 inch x 9 ft)	Yes

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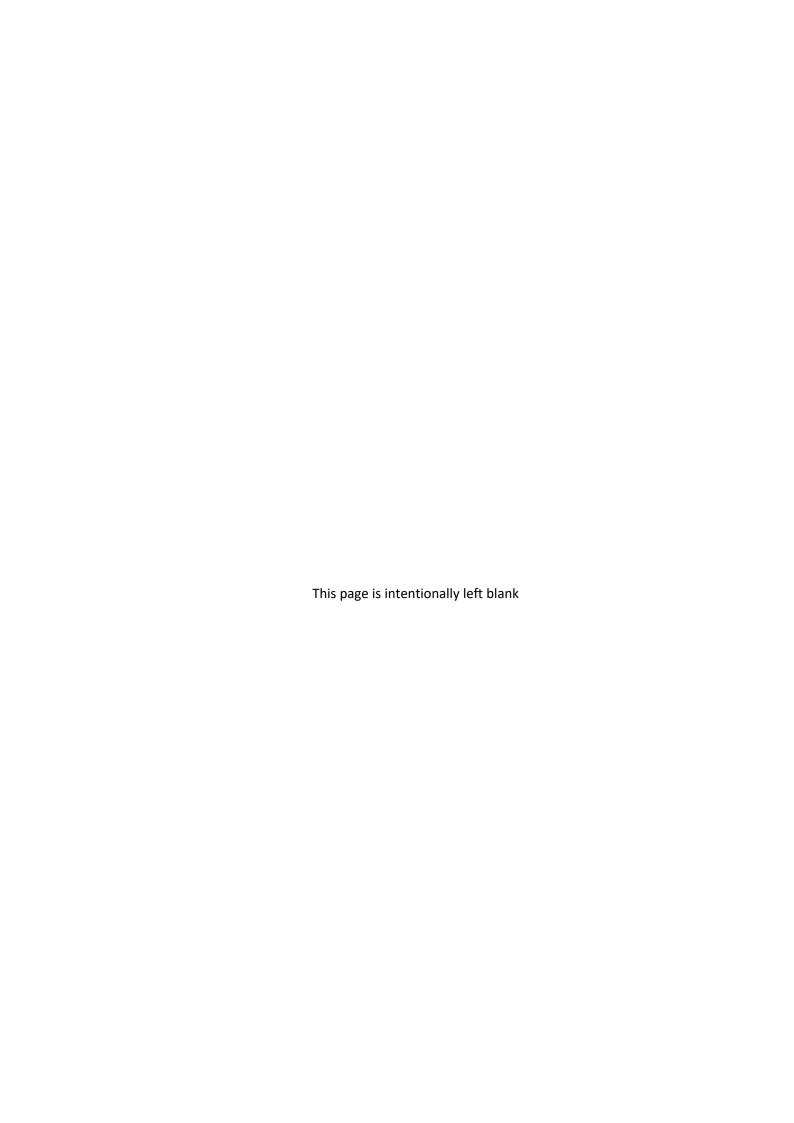
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