



# rootwave™

Zaps weeds. Zero chemicals.

## RootWave Pro Treatment Electrode Accessories

Model No: PER-001-2, PER-003-2, PER-004-2

### User Guide

*English*

Original instructions



Read and follow all safety precautions in this User Guide. Improper use can cause death or serious injury. Keep this user guide for reference - do not throw it away.



RootWave Pro User Guide

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## Copyright

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## Intended use

This document provides important safety information and fitment instructions for RootWave Pro treatment electrode accessories, for use in combination with RootWave Pro.

## Compliance



RootWave Pro treatment electrode accessories comply with applicable EC directives:

Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS) Directive 2011/65/EU

## Product improvements

RootWave's philosophy is to continually improve its products. As a result, improvements are made from time to time. This user guide will be updated for significant improvements or any that affect safety. However, a user guide update may not always follow minor improvements that do not affect safety. If you are unsure of anything please contact your RootWave Pro supplier.

## Contact details

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### Other countries

For other countries contact your RootWave supplier. Contact details can be found on your sales documentation.

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## Safety information

This section tells you how to use RootWave Pro treatment electrode accessories safely.

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### Warning

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



### Caution

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

### Notice

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



- Additional information relating to the current section.
- 

Ensure that you comply with all relevant local health and safety policy and legislation when you are using RootWave Pro.

RootWave takes a thorough and proactive approach to safety in the design of its products, labelling and training for safe use. If you have experienced any accidents, incidents or near misses while using RootWave Pro, please contact your RootWave Pro supplier.

► *For contact information, see section 'Contact details' on page 3.*

## Warning

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

### Warning

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#### **To avoid death or serious injury from electric shock:**

- RootWave Pro uses hazardous high voltages to kill weeds and if used incorrectly can cause death to humans or animals. Training course and exam must be completed by all operators before using RootWave Pro. For training courses including refresher training please contact your RootWave Pro supplier.
- Safety interlocks are in place to ensure correct set up and safe operation. Modifications to RootWave Pro may result in unexpected compromise to safety features. Do not attempt to modify the system, use non-genuine RootWave accessories or overcome safety features as this can lead to electric shock.
- RootWave Pro can only be serviced by trained and authorised service personnel. Contact your RootWave Pro supplier for servicing or replacements.
- The Treatment Lance electrode is at a hazardous voltage when activated. Before attempting to handle the electrode turn the power isolator switch on the Power Module to 'Off' and turn off the generator.
- Water and condensation can conduct electricity. Never place the Treatment Lance on damp or wet ground. Place Treatment Lance in an elevated, dry location to avoid water ingress.
- Do not drop or expose parts of the system to impact of any kind as this can damage the product and its safety systems. Check all parts of the RootWave Pro system for damage each time before use. If any parts of RootWave Pro appear to be damaged, do not use, contact your RootWave Pro supplier.
- To avoid risk of electric shock turn the power isolator switch on the Power Module to 'Off' and turn off the generator before disassembling the system.

## To avoid death or serious injury from fire or a burn:

- The electrode tip has features to protect the other parts of the Treatment Lance tube. Ensure the electrode tip and protective sleeve are correctly in place before activation. Ensure system is turned off and disconnected from power source before attempting to handle the electrode.
- The integrity of the electrode tip is critical to safe use. Always handle the Treatment Lance with care. Do not stand the Treatment Lance on its electrode tip because the tip or its retaining mechanism may get damaged.
- After use, the electrode tip of the Treatment Lance and the spike of the Treatment Return may be hot. Before you touch the electrode tip or spike, allow them to cool.

## Caution

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### Caution

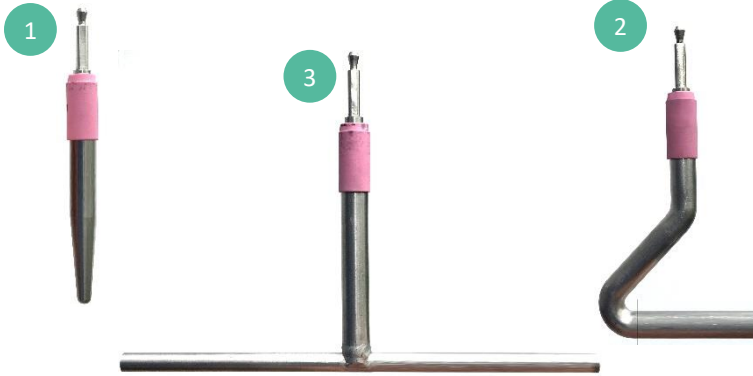
- Indicates a hazardous situation which, if not avoided, could result in moderate injury, damage the product, or lead to loss of data.
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## To avoid moderate injury or damage to property:

- Electrode spikes on the Treatment Lance, Treatment Return and Safety Earth have pointed ends. Handle them carefully and ensure they are secured in a position that cannot damage other equipment during transportation.

## Treatment electrode types

This document provides important safety information and fitment instructions for the following RootWave Pro treatment electrode accessories.



- |   |           |   |  |
|---|-----------|---|--|
| 1 | PRO-001-2 | <b>Straight</b><br>treatment<br>electrode | You might find the straight electrode works well for treating individual weeds one at a time - especially where you need to be selective.    |
| 2 | PRO-003-2 | <b>Hook</b><br>treatment<br>electrode     | You might find the hook electrode works well for gathering multiple weed stems, or for pulling the target weed away from other plants.       |
| 3 | PRO-004-2 | <b>T-bar</b><br>treatment<br>electrode    | You might find the T-bar electrode works well for treating smaller weeds simultaneously, or for treating clumps of dense medium sized weeds. |



## Removal and fitting

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### Caution

- The Treatment Lance electrode is at a hazardous voltage when activated. Before attempting to handle the electrode turn the power isolator switch on the Power Module to 'Off' and turn off the generator.
  - After use, the electrode tip of the Treatment Lance and the spike of the Treatment Return may be hot. Before you touch the electrode tip or spike, allow them to cool.
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## Removal

To remove a treatment electrode, grab the Treatment Lance shaft in one hand and the Treatment electrode in the other, and pull firmly.

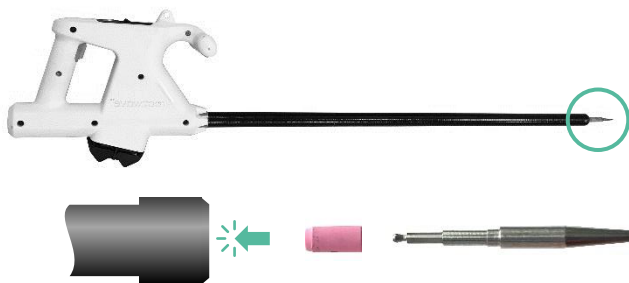
Both the treatment electrode and the ceramic insulator will come free.

## Fitting

To insert the electrode tip into the Treatment Lance, slide the protective sleeve onto the electrode tip, align the seating tag with the recess at the tip of the Treatment Lance shaft. Then push the electrode tip into the housing until it clicks.

Ensure the protective sleeve is fitted.

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## Warranty

RootWave Pro accessories are supplied with a 1 year warranty as standard. The warranty period will begin on the date the accessory is shipped.

Contact your RootWave Pro supplier if you require further information.

► *For contact information, see 'Contact details' on page 3*

## Disposal

RootWave Pro treatment electrodes should be recycled at a recycling station.

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