



**WORX**  
it's your nature

Owner's manual



**Users can view the electronic instructions at <https://wiki.worx.com/en>.**

## **1. PRODUCT SAFETY**

### **1.1. GENERAL & ADDITIONAL SAFETY INSTRUCTION**

**⚠ 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.

**Carefully read the instructions for the safe operation of the machine.**

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

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

**WARNING:** For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance.

**WARNING:** To reduce the risk of injury to persons and damage to the machine, do not remove battery pack before switching off the machine.

### **IMPORTANT**

#### **READ CAREFULLY BEFORE USE**

#### **KEEP FOR FUTURE REFERENCE**

#### **Safe operation practices**

##### **Training**

- a) Read the instructions carefully. Make sure you understand the instructions and be familiar with the controls and the proper use of the appliance.
- b) Never allow people unfamiliar with these instructions or children to use the appliance. Local regulations can restrict the age of the operator.
- c) The operator or user is responsible for accidents or hazards occurring to other people or their property.

##### **Preparation**

- a) Ensure the correct installation of boundary wire as instructed.
- b) Periodically inspect the area where the appliance is to be used and remove all stones, sticks, wires, bones, and other foreign objects.
- c) Periodically visually inspect to see that the blades, blade bolts and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.
- d) On multi-spindle appliances, take care as rotating one blade can cause other blades to rotate.
- e) **WARNING!** The lawnmower shall not be operated without the guard in place.

##### **Operation**

#### **1. General**

- a) Never operate the appliance with defective guards, or without safety devices, for example deflectors, in place.
- b) Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- c) Never pick up or carry an appliance while the motor is running.
- d) Operate the disabling device from the appliance.
  - Before clearing a blockage;
  - Before checking, cleaning or working on the appliance;
  - After striking a foreign object to inspect the machine for damage;
  - If the machine starts to vibrate abnormally, and to check for damage before restarting.
- e) It is not permitted to modify the original design of robotic lawnmower. All modifications are

made at your own risk.

- f) Start robotic lawnmower according to the instructions. When the power key is switched on, make sure you keep your hands and feet away from the rotating blades. Never put your hands and feet under the mower.
- g) Never lift up robotic lawnmower or carry it when the power key is switched on.
- h) Do not let persons who do not know how robotic lawnmower works and behaves use the mower.
- i) Do not put anything on top of robotic lawnmower or its charging station.
- j) Do not allow robotic lawnmower to be used with a defective blade disc or body. Neither should it be used with defective blades, screws, nuts or cables.
- k) Always switch off robotic lawnmower when you do not intend to use the mower. Robotic lawnmower can only start when the power key is switched on and the correct PIN code has been entered.
- l) Keep your hands and feet away from the rotating blades. Never place your hands or feet close to or under the body when robotic lawnmower is in operation.
- m) To avoid using the machine and its peripherals in bad weather conditions especially when there is a risk of lightning.
- n) Not to touch moving hazardous parts before these have come to a complete stop.
- o) For machines used in public areas, that warning signs shall be placed around the working area of the machine. They shall show the substance of the following text:  
Warning! Automatic lawnmower! Keep away from the machine! Supervise children!
- p) To avoid the risk of injury, please stop the mower and carry out the mower to another lawn to be mowed. Never drag or pull the mower on operation when you change the lawn to be mowed.

## **2. Additionally when the appliance is operating automatically**

- a) Do not leave the machine to operate unattended if you know that there are pets, children or people in the vicinity.
- b) Please set the smart phone to automatically lock the screen after 30 s to prevent the APP from being misused by others.

## **Maintenance and storage**

**WARNING! When the mower is turned upside down the power key must always be switched off.**

**The power key should be switched off during all work on the mower's underframe, such as cleaning or replacing the blades.**

- a) Keep all nuts, bolts and screws tight to be sure the appliance is in safe working condition.
- b) Inspect the robotic lawnmower each week and replace worn or damaged parts for safety.
- c) Check especially that the blades and blade disc are not damaged. Replace all blades and screws at the same time if necessary so that the rotating parts are balanced.
- d) Ensure that only replacement cutting means of the right type are used.
- e) Ensure that batteries are charged using the correct charger recommended by the manufacturer. Incorrect use may result in electric shock, overheating or leakage of corrosive liquid from the battery.
- f) In the event of leakage of electrolyte flush with water/neutralizing agent, seek medical help if it comes into contact with the eyes etc.
- g) Servicing of the appliance should be according to manufacturers' instructions.

## **Recommendation**

To connect the machine and/or its peripherals only to a supply circuit protected by a residual current device (RCD) with a tripping current of not more than 30 mA.

## Residual risks

To avoid injuries, wear protective gloves when replacing the blades.

## Transport

The original packaging should be used when transporting robotic lawnmower over long distances. To safely move form or within the working area:

- a) Press the STOP button to stop the mower.  
You select the four digit PIN code when you start the mower for the first time.
- b) Always switch off robotic lawnmower if you intend to carry the mower.
- c) Carry the mower by the handle at the front under the mower. Carry the mower with the blade disc away from the body.

## RF exposure requirements

To satisfy RF exposure requirements, a separation distance of 200mm or more should be maintained between this device and persons during device operation.

To ensure compliance, operations at closer than this distance is not recommended. The antenna used for this transmitter must not be co-located in conjunction with any other antenna or transmitter.

This is a class III appliances and it must only be supplied at safety extra low voltage corresponding to the marking on the appliance.

## Safety Warnings for battery pack

- a) **Do not dismantle, open or shred cells or battery pack.**
- b) **Do not short-circuit a battery pack. Do not store battery packs haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by conductive materials.** 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.
- c) **Do not expose battery pack to heat or fire. Avoid storage in direct sunlight.**
- d) **Do not subject battery pack to mechanical shock.**
- e) **In the event of battery leaking, do not allow the liquid to come into contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.**
- f) **Keep battery pack clean and dry.**
- g) **Wipe the battery pack terminals with a clean dry cloth if they become dirty.**
- h) **Battery pack needs to be charged before use. Always refer to this instruction and use the correct charging procedure.**
- i) **Do not maintain battery pack on charge when not in use.**
- j) **After extended periods of storage, it may be necessary to charge and discharge the battery pack several times to obtain maximum performance.**
- k) **Recharge only with the charger specified by Worx. Do not use any charger other than that specifically provided for use with the equipment.**
- l) **Do not use any battery pack which is not designed for use with the equipment.**
- m) **Keep battery pack out of the reach of children.**
- n) **Retain the original product literature for future reference.**
- o) **Remove the battery from the equipment when not in use.**
- p) **Dispose of properly.**
- q) **Do not mix cells of different manufacture, capacity, size or type within a**

**device.**

**r) Keep the battery away from microwaves and high pressure.**

**s) Warning! Do not use non-rechargeable batteries.**

### **User manual requirements for wireless product**

a) Operation of this device is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

b) Caution: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

c) NOTE: This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

## 1.2. INFORMATION ON LANDROID



WARNING – robotic lawnmower can be dangerous if incorrectly used. Read through the Operator's manual carefully and understand the content before using your robotic lawnmower.



WARNING - Keep a safe distance from the machine when operating.



WARNING – Operate the disabling device before working on or lifting the machine.



WARNING - Do not ride on the machine.



Li-Ion battery. This product has been marked with a symbol relating to 'separate collection' for all battery packs and battery pack. It will then be recycled or dismantled in order to reduce the impact on the environment. Battery packs can be hazardous for the environment and for human health since they contain hazardous substances.



Do not burn



Batteries may enter water cycle if disposed improperly, which can be hazardous for ecosystem. Do not dispose of waste batteries as unsorted municipal waste.



Do not wash the machine with a high pressure washer



Waste electrical products must not be disposed of with household waste. Please recycle where facilities exist. Check with your local authorities or retailer for recycling advice.



Class III appliance



Read operator's manual



Detachable supply unit

**Your Landroid can be used with other Worx functional accessories. Visit [www.worxlandroid.com](http://www.worxlandroid.com) to learn more about these available accessory options.**

## **IMPORTANT SAFETY INSTRUCTIONS. KEEP FOR FUTURE REFERENCE.**

Attention: read all safety warnings and all instructions for the safe operation of the machine. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

1. Landroid is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
2. Children should be supervised to ensure that they do not play with Landroid.
3. Landroid is only to be used with the power supply unit provided with it.

### **Safety guidance before use**

1. Read the instructions carefully. Make sure you understand the instructions and be familiar with the controls and the proper use of Landroid.
2. Never allow people unfamiliar with these instructions or children to use Landroid.
3. The operator or user is responsible for accidents or hazards occurring to other people or their property.

### **Preparation before use**

1. Ensure the correct installation of boundary wire as instructed.
2. Periodically inspect the area where Landroid is to be used and remove all stones, sticks, wires, bones, and other foreign objects
3. Periodically visually inspect to see that the blades, blade bolts and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets.
4. Turn off Landroid, remove the battery, wear protective gloves and take care when inspecting blades, as rotating one blade can cause other blades to rotate.

**WARNING!** The lawnmower should not be operated without the guard in place.

### **Safe Operation**

1. Never operate the appliance with defective guards or without the guard in place.
2. Do not put hands or feet near rotating parts.
3. Never pick up or carry Landroid while it is running.
4. Turn off the machine and remove the battery before clearing a blockage and before checking, cleaning or working on Landroid
5. It is not permitted to modify the original design of Landroid. All modifications are made at your own risk.
6. Start Landroid according to the instructions. When the power key is switched on, make sure you keep your hands and feet away from the rotating blades.
7. Never lift up Landroid or carry it when the power is switched on.
8. Do not put anything on top of Landroid or its charging station.
9. Do not allow Landroid to be used with a defective blade disc or body. Neither should it be used with defective blades, screws, nuts or cables.
10. Switch off Landroid when you do not intend to use it for a long period of time.
11. Landroid can only start when the power is switched on and the correct PIN code has been entered.
12. Avoid using Landroid in bad weather conditions especially when there is a risk of lightning.
13. Do not touch moving hazardous parts before these have come to a complete stop.
14. Do not leave Landroid to operate unattended if you know that there are pets, children or people in the vicinity.

### **MAINTENANCE AND STORAGE**

**⚠ Attention:** When the mower is turned upside down the power key must always be switched off. The power key should be switched off and the battery removed during all work on the mower's under frame, such as cleaning or replacing the blades.

1. Do not wash Landroid with a pressure washer—due to the high pressure, water can go inside Landroid and damage the electronic circuit.
2. To avoid injuries, wear protective gloves when replacing the blades.
3. Keep all nuts, bolts and screws tight to be sure Landroid is in safe working condition.
4. Inspect Landroid each week and replace worn or damaged parts for safety.
5. Ensure that only replacement blades of the right type are used.
6. Ensure that batteries are charged with Landroid's charging station. Incorrect use may result in electric shock or overheating of the battery.
7. Servicing of Landroid should be according to manufacturers' instructions.

### **Recommendation**

Please only connect Landroid and/or its peripherals to a supply circuit protected by a residual current device (RCD) with a tripping current of not more than 30 mA.



**Safe transport**

1. The original packaging should be used when transporting Landroid over long distances.
2. To safely move Landroid within the working area:
  - press the STOP button to stop the mower
  - carry the mower by the handle at the rear under the mower
  - carry the mower with the blade disc away from the body

**Battery safety**

1. Do not dismantle, open or shred battery pack.
2. Do not short-circuit the battery pack. Do not store battery packs haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by conductive materials.
3. When the battery pack is not in use, keep it away from 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. Do not expose the battery pack to heat or fire. Avoid storage in direct sunlight.
5. Do not subject the battery pack to mechanical shock.
6. Seek medical advice immediately if a cell or battery pack has been swallowed.
7. Keep the battery pack clean and dry.
8. The battery pack gives its best performance when it is operated at temperature around 20°C.
9. When disposing of battery packs, keep battery packs of different electrochemical systems separate from each other.
10. Recharge only with the charger specified by Worx. Do not use any charger other than that specifically provided for use with Landroid. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
11. Do not use any battery pack which is not designed for use with the equipment.
12. Keep the battery pack out of the reach of children.
13. Dispose of battery properly. Return exhausted batteries to your local collection or recycling point.

**Class III appliance**

1. Waste electrical products must not be disposed of with household waste. Please recycle where facilities exist. Check with your local authorities or retailer for recycling advice.

**⚠ WARNING!** Landroid can be dangerous if incorrectly used. Read through the Operator's Manual carefully and understand the content before using your Landroid.

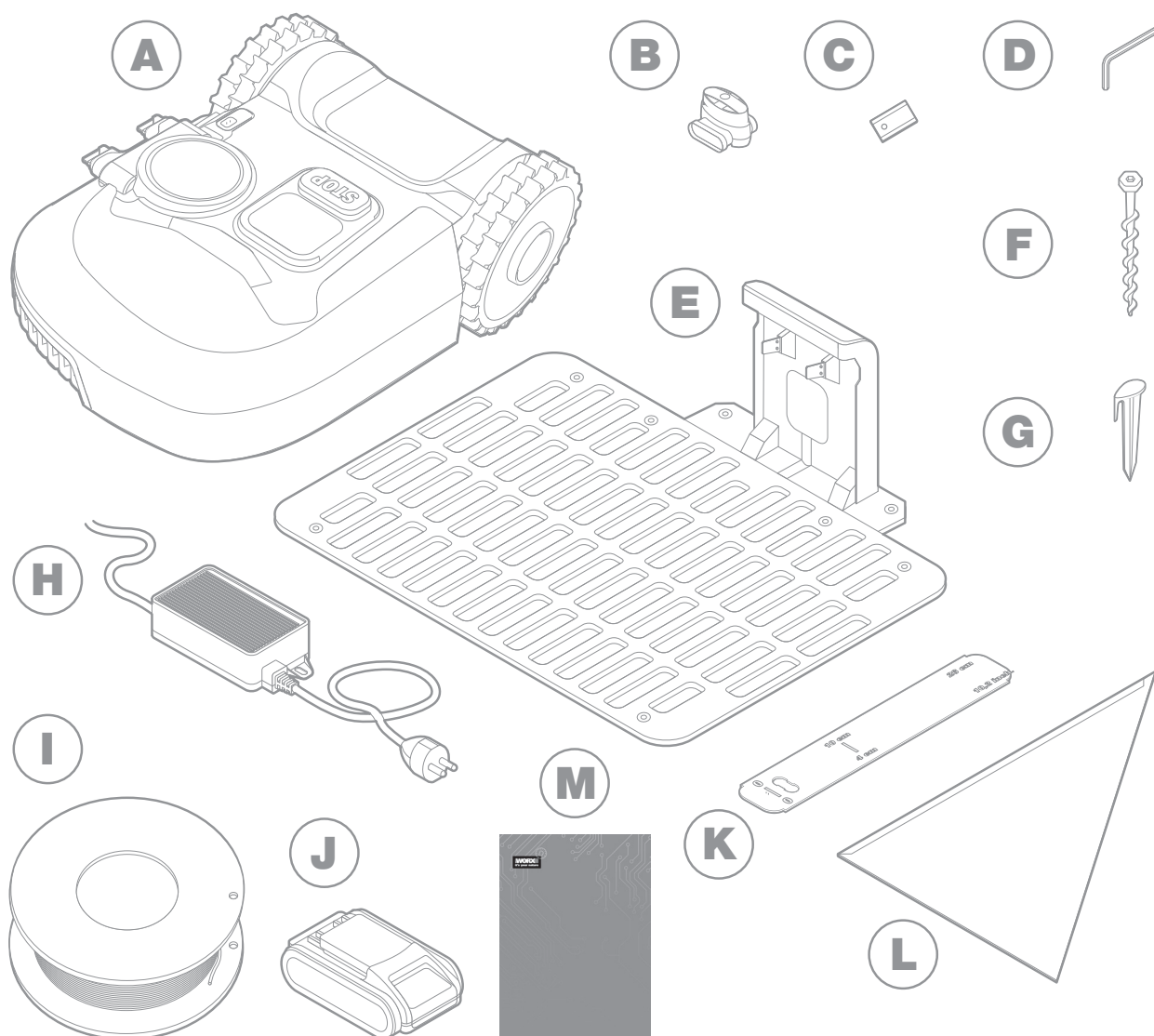
**⚠ WARNING!** Keep a safe distance from the machine when operating.

**⚠ WARNING!** Turn the machine off and remove the battery before working on or lifting the machine.

**⚠ WARNING!** Do not ride on the machine.

## 2. COMPONENT LIST

### WHAT'S IN THE BOX



The picture is only for reference

**A** Worx Landroid

**B** Wire repair connectors

**C** Spare blades kits

**D** Hex key

**E** Charging base

**F** Screws

**G** Wire pegs

**H** Power supply

**I** Boundary wire

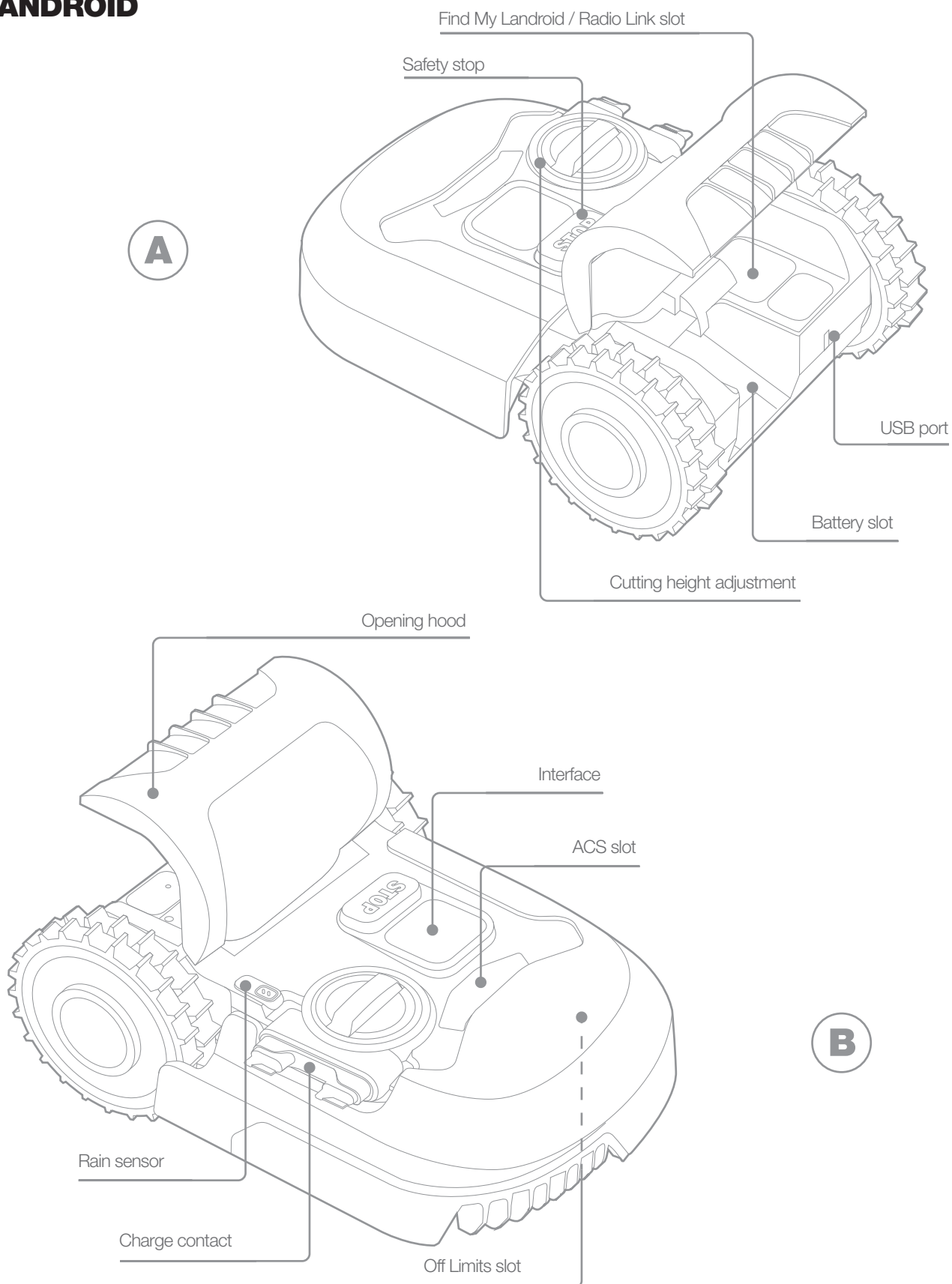
**J** 20V battery

**K** Boundary wire distance gauges

**L** Bertelsen ruler

**M** Manuals

## GETTING TO KNOW LANDROID



### 3. TECHNICAL DATA

Type **WR168E WR169E (100-199 - designation of machinery, representative of Robotic Lawnmower)**

|                                                      | WR168E                                                   | WR169E |
|------------------------------------------------------|----------------------------------------------------------|--------|
| Rated voltage                                        | 20 V  Max.*                                              |        |
| No load speed (/min)                                 | 3150                                                     |        |
| Cutting area (m <sup>2</sup> )                       | 250                                                      | 300    |
| Cutting diameter (cm)                                | 16                                                       |        |
| Cutting height (mm)                                  | 30-60                                                    |        |
| Cutting height positions                             | 4                                                        |        |
| Battery type                                         | Lithium-ion                                              |        |
| Battery model                                        | WA3502                                                   |        |
| Charging time approx. (mins)                         | 115                                                      |        |
| Charger model                                        | WA3810 / WA3811                                          |        |
| Charger rating                                       | Input: 100-240 V~50/60 Hz, 30 W,<br>Output: 20 V , 1.0 A |        |
| Machinery weight (kg)                                | 8.5                                                      |        |
| Protection degree                                    | III                                                      |        |
| APP                                                  | Y                                                        |        |
| Frequency bands for Bluetooth (MHz)                  | 2400-2483.5 MHz                                          |        |
| Maximum Transmitted Power for Bluetooth (dBm)        | 8 dBm                                                    |        |
| Frequency bands for Wi-Fi (MHz)                      | 2400-2483.5 MHz                                          |        |
| Maximum Transmitted Power for Wi-Fi (dBm)            | 20 dBm                                                   |        |
| Frequency band of inductive loop systems             | 77 Hz                                                    |        |
| Max. radio-frequency power of inductive loop systems | 82 dBμA/m                                                |        |

\* Voltage measured at no load. Initial battery voltage reaches maximum of 20 volts. Nominal voltage is 18 volts.

## 4. NOISE DATA

|                                                                   | WR168E                         | WR169E                         |
|-------------------------------------------------------------------|--------------------------------|--------------------------------|
| A weighted sound pressure                                         | $L_{pA} = 47.21 \text{ dB(A)}$ | $L_{pA} = 47.21 \text{ dB(A)}$ |
|                                                                   | $K_{pA} = 3 \text{ dB(A)}$     | $K_{pA} = 3 \text{ dB(A)}$     |
| A weighted sound power                                            | $L_{wA} = 55.21 \text{ dB(A)}$ | $L_{wA} = 55.21 \text{ dB(A)}$ |
|                                                                   | $K_{wA} = 2.52 \text{ dB(A)}$  | $K_{wA} = 2.52 \text{ dB(A)}$  |
| <b>Wear ear protection when sound pressure is over 80 dB (A).</b> |                                |                                |

A degree of noise from the machine is not avoidable. Route noisy work is to be licensed and limits for certain periods. Keep rest periods and they may need to restrict the working hours to a minimum. For their personal protection and protection of people working nearby, an appropriate hearing protection shall be worn.

## ACCESSORIES

|                              | WR168E | WR169E |
|------------------------------|--------|--------|
| Screw                        | 3      | 3      |
| Charging base                | 1      | 1      |
| Charging base fixing nails   | 8      | 8      |
| Boundary wire                | 100m   | 100m   |
| Wire pegs                    | 130    | 130    |
| Hex key                      | 1      | 1      |
| Boundary wire distance gauge | 1      | 1      |
| Bertelsen ruler              | 1      | 1      |
| Blade                        | 3      | 3      |
| Connector                    | 2      | 2      |
| Battery pack (WA3502)        | 1      | 1      |
| Charger (WA3810 / WA3811)    | 1      | 1      |

We recommend that you purchase genuine accessories listed in the above list from the same store that sold you the tool. Refer to the accessory packaging for further details. Store personnel can assist you and offer advice.

## INTENDED USE

The garden product is intended for domestic lawn mowing. It is designed to mow often, maintaining a healthier and better looking lawn than ever before. Depending on the size of your lawn, your Landroid may be programmed to operate at any time or frequency. It is impossible for digging, sweeping or snow cleaning.

## 5. MAINTENANCE

Your Landroid works hard and needs to be cleaned and checked from time to time. This section of our guide helps you keep Landroid in good shape so it can last for years without troubles. Here's how to take care of your Landroid. Switch off the machine before carrying out any service or maintenance.

### 5.1 Keep it sharp

Landroid does not cut grass like other mowers. Its cutting blades are razor sharp on 2 edges and rotate in both directions for maximum cutting capacity.

A. The blade turning disc makes a clockwise and counterclockwise rotation at random to use both cutting edges and minimize the frequency of replacing the blades.

B. Each cutting blade will last up to 2 months when it is programmed to mow every day.

C. Always check to see if the blades are chipped or damaged and replace them if they are.

D. When the cutting blades are dull and worn out, they should be replaced with the spare blades provided with your Landroid. Spare blades are also available at your nearest Landroid retailer.

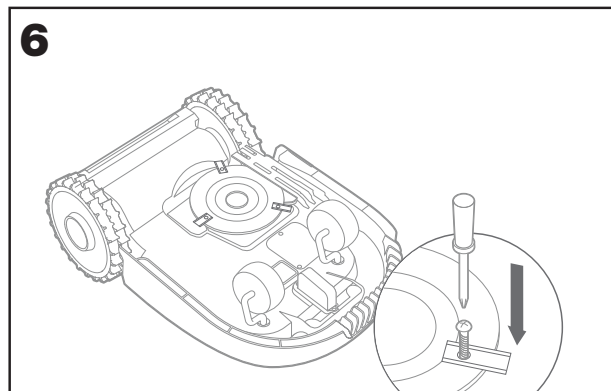
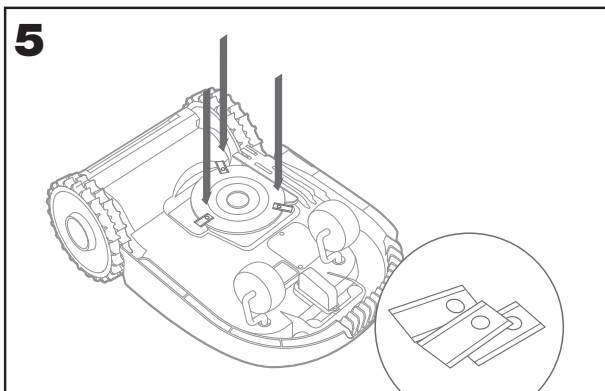
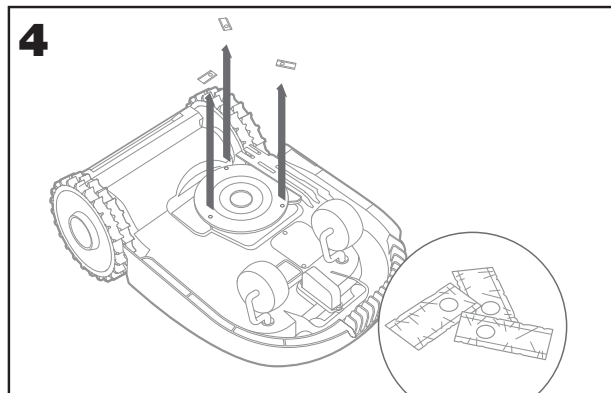
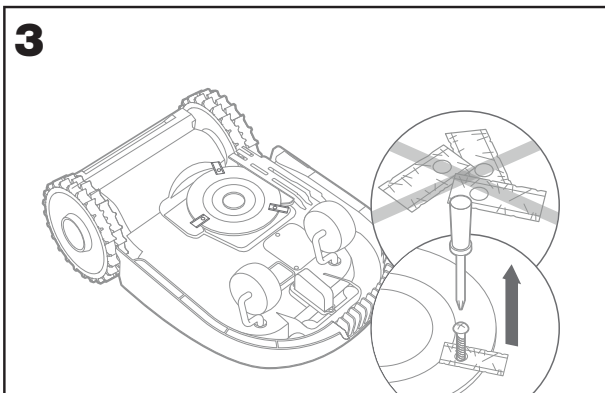
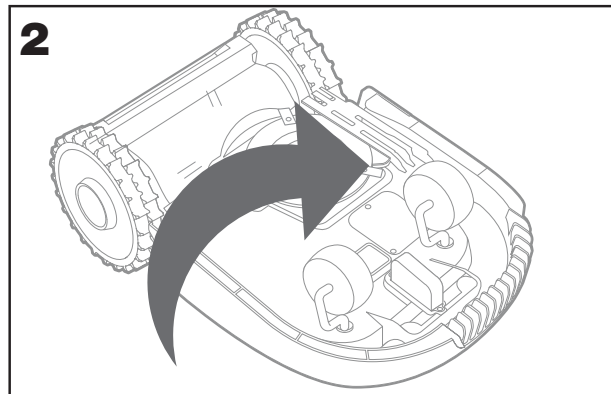
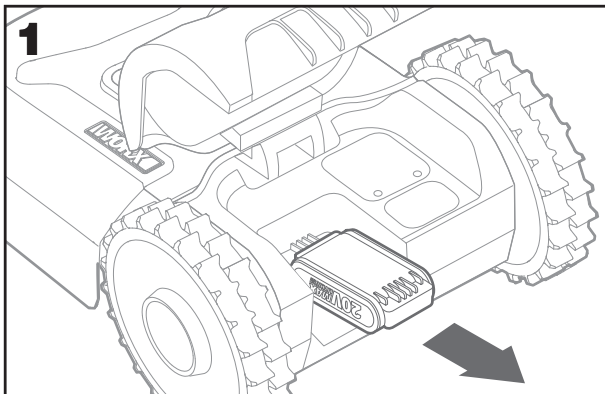
**⚠ WARNING! Before cleaning, adjusting, or replacing the blades, turn your Landroid OFF and remove the battery. Always wear protective gloves.**

#### 5.1.1 Replacing the Blades

Remove the battery (fig. 1) and gently flip the Landroid over (fig.2).

Take the screws off the blades with a screwdriver (fig. 3 - 4).

Firmly screw on the new blades (fig. 5 - 6).

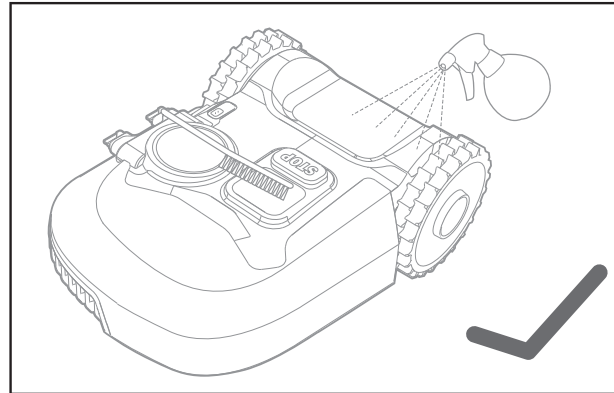
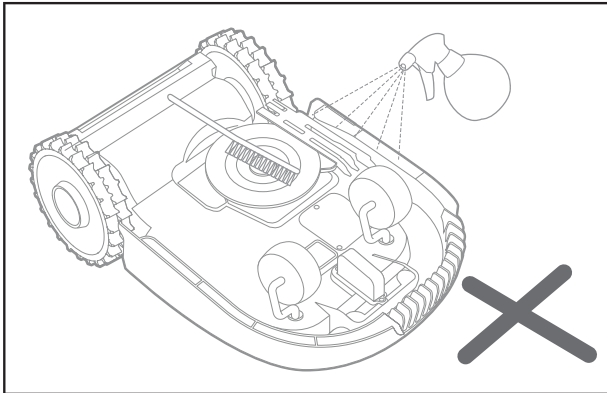


**⚠ Attention:** When fitting new blades, make sure you replace ALL the blades.  
Always use new screws when fitting blades. This is important to ensure blade retention and balance the blade turning disc. Failure to use new screws could cause serious injury.  
Important: After screwing the blade to the blade disc, make sure the blade is able to spin freely.

## 5.2 Keep it clean

Your Landroid should be cleaned regularly. This helps keep it in good condition, especially removing dirt, debris and the build-up of grass from daily mowing. Turn Landroid off before cleaning it. For extra safety, remove the battery.

**⚠ WARNING! DO NOT use a hose, high pressure washer or otherwise pour running water on your Landroid. High pressure water can go inside the sealings and damage electronic and mechanical parts.**



### 5.2.1 .Cleaning the upper body

- A. Clean with a spray bottle filled with water. Don't use solvents or polishers.
- B. Use a brush or a clean cloth to remove built-up dirt.

### 5.2.2. Cleaning the Bottom

- A. Flip Landroid upside down.
- B. Remove debris and grass clippings using a brush to remove.
- C. Be careful not to touch the blades with your hands. Wear gloves for protection.
- D. Clean the blade disc, the chassis and the front wheel(s) thoroughly with a soft brush or moist rag.
- E. Rotate the blade disc to ensure it rotates freely. Remove any obstructions. Remove any lodged debris so that they don't cause a crack in the blade disk. Even the tiniest crack effects mowing performance.
- F. Check the blades spin freely around the fixing screws. Remove any obstructions.

### 5.2.3. Cleaning the drive wheels

- A. Remove mud from wheels with a brush in order to ensure good grip of the tread.

### 5.2.4. Clearing the charging contacts

- A. Clean the contact pins located on the charging base and the charging strips located on the Landroid using a cloth.
- B. Periodically remove any build-up of grass clippings or debris around the contact pins and the charging strips to ensure Landroid successfully charges each time.

## 5.3. Keep it charged

The heart of Landroid is its 20V Li-Ion Worx Powershare Battery.

- A. For the proper storage of the battery, make sure it is fully charged and kept in a cool dry place.
- B. The recommended Landroid operation temperature is between 0-55°C.
- C. The life-span of Landroid's battery depends on hours of usage and the length of use per day during the mowing season.

### 5.3.1. Landroid can be charged manually without the boundary wire

- A. Connect the charging base to a suitable power supply. The green light on the charging base will turn on.
- B. Manually dock Landroid into the charging base while Landroid is powered off.
- C. The green light on the charging base will flash and Landroid will begin to charge.

## 5.4. Keep it stored over the winter

Although Landroid is designed and built to survive the most severe weather conditions, we recommend storing it in your shed or garage during the winter. To prepare it for winter hibernation:

- A. Clean it thoroughly

- B. Fully charge the battery
- C. Turn the power off

#### 5.4.1 Getting back to work in the Spring

When it is time to re-start Landroid for the new season, please perform the following checks:

- A. Update the time and date settings via the APP.
- B. If you notice signs of oxidation on the charging contacts of Landroid and the charging station, clean these with a fine grade emery cloth.
- C. Full charge Landroid's battery before operating.

### 5.5 Keep it updated

Landroid is always improving and new software versions are made available for free. Always keep Landroid software updated to make the most of your machine.

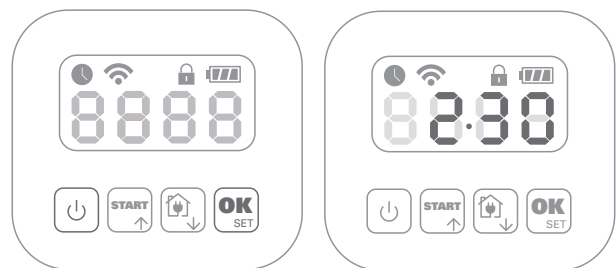
#### 5.5.1 Over-the-Air (OTA) updates

If your Landroid is connected to your Wi-Fi network, you will be notified that new software is available via the app. Once you confirm, the update will happen automatically Over-the-Air.

#### 5.5.2 Check which software version you have

If you want to see the software version number:

- A. Power off firstly
- B. Please press and hold the Power and OK buttons together
- C. A beep will sound
- D. Then a number will appear on the display
- E. This is the version number



#### 5.5.3 .Manual updates

- A. If your Landroid is not connected to your Wi-Fi network, you can still update it to the latest software version with a USB stick.
- B. Regularly visit the Worx Landroid website to check if any new version is available. If you subscribed to Landroid email list, you will be notified when a new version is available.
- C. Download the latest software version at our website.
- D. Take a blank USB stick formatted in **FAT32**.
- E. Save the zip file and extract the content to your USB stick.
- F. Place Landroid on a secure and level surface.
- G. Turn off Landroid.
- H. Go to the rear of the Landroid to access the USB port.
- I. Insert the USB stick in the port.
- J. Place the Landroid on the lawn again, inside the working area delimited by the boundary wire.
- K. Turn on Landroid.
- L. Without lifting Landroid, remove the USB stick when 'USB' is displayed.
- M. The update will begin automatically and may take a while. Landroid will restart automatically after the update is completed.

**NOTE:** Make sure Landroid is within the boundary when restarting Landroid.



## 6. ERROR MESSAGES

Sometimes things can go wrong. Fortunately Landroid is smart enough to tell you if it is encountering an issue, so you can fix it. If in doubt, please visit our website where you will find useful videos and further support.

| MESSAGE | CAUSE                                           | ACTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EE      | Error unknown.                                  | Please contact Customer Services.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| F1      | Rain delay.                                     | Your Landroid will start after the rain stops and the rain delay has expired.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| E1      | Boundary wire missing OR Landroid outside wire. | <ol style="list-style-type: none"> <li>1. If Landroid is actually outside its working area: turn power off, take Landroid inside its working area. Turn power on. Press  then .</li> <li>2. If the Landroid is inside its working area, check if the LED on the charging base is green. If not, verify that the charging base is properly connected to the charger and that the charger is connected to a suitable power supply. If they are properly connected, the boundary wires are clamped incorrectly and must be reversed.</li> <li>3. Reverse the boundary wire ends.</li> </ol> |
| E2      | Motor wheels fault.                             | <p>Turn power off and take Landroid to an area free from obstacles. Turn power on. Press start.</p> <p>If the error message is still displayed, turn power off. Turn Landroid upside-down and check if there's anything preventing the wheels from rotating. Remove any obstruction, turn Landroid upright, turn power on.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| E3      | Motor blade fault.                              | <p>Turn power off.</p> <p>Turn Landroid upside down, put on safety gloves to prevent injury and check if there's anything preventing the blade disc to rotate.</p> <p>Remove any obstruction.</p> <p>Turn Landroid upright and take it to an area with short grass or adjust the cutting height;</p> <p>Turn power on. Press start.</p>                                                                                                                                                                                                                                                                                                                                                                                                                        |
| E4      | Error trapped.                                  | <p>Turn power off.</p> <p>Take Landroid to an area in your lawn free of obstacles, turn power on. Press start.</p> <p>If the error message is still displayed: turn power off, turn Landroid upside-down. Check if there is anything preventing the wheels from rotating. Remove any obstruction, turn the Landroid upright, turn power on.</p>                                                                                                                                                                                                                                                                                                                                                                                                                |
| E5      | Error lifted.                                   | <p>Turn power off.</p> <p>Take Landroid to a lawn area clear of obstacles, turn power on. Press start .</p> <p>If the error message is still displayed: turn power off, turn Landroid upside-down and check there's anything that can cause Landroid to be lifted up.</p> <p>Remove any possible object, turn Landroid upright, turn power on.</p>                                                                                                                                                                                                                                                                                                                                                                                                             |
| E6      | Error Upside Down (tilted).                     | Turn Landroid upright.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| E7      | Battery charge error.                           | <ol style="list-style-type: none"> <li>1) Battery's temperature is too high (more than 55°C) when charging. Place the charging base in a shady area or wait until the temperature has cooled down.</li> <li>2) Battery's temperature is too low. The outside temperature doesn't allow your Landroid to work. It's time to recover it for winter time.</li> <li>3) Poor connection: check the connection between the contact pins located on the charging base and the charging strip and that the charging base is on a perfect flat ground.</li> <li>4) Power supply is broken: please contact Customer Services.</li> </ol>                                                                                                                                 |
| E8      | Error find home timeout.                        | <ol style="list-style-type: none"> <li>1) Charging base is badly placed (not on a flat ground), Landroid doesn't find pins and doesn't stop. Check the base.</li> <li>2) Landroid runs out of battery before reaching the charging base. The extended boundary wire should not exceed 350 meters.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                                                       |                                                                                                                                                                                                                                                                              |                                                                                                                                                                                           |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E9                                                                    | With the 'Lock Function' enabled, if your Landroid does not receive a signal from your Wi-Fi router for 3 days, then it gets locked as a security measure.<br>This could be because your router lost its power or because you changed your Wi-Fi router or network provider. | Please reconnect Landroid to the Wi-Fi network it has been originally paired with.<br>If this is not possible, contact Customer Service.                                                  |
| Er:60 - Er:61 - Er:62 - Er:63 - Er:64                                 | Module software update failure occurs.                                                                                                                                                                                                                                       | Please check that the module is correctly connected.<br>Check that the file copied in the USB stick is not damaged.<br>Turn power off, then turn it on and try the software update again. |
| Er:50 - Er:51 - Er:52 - Er:80 - Er:81 - Er:82 - Er:83 - Er:84 - EF:80 | Software update failure occurs.                                                                                                                                                                                                                                              | Please try the software update again or contact Customer Service                                                                                                                          |

## NOTES

- A. Before turning power on, always check Landroid is inside its working area.
- B. If for any reason—i.e. a party, children playing...—you want to park your Landroid in the charging base: press home then OK.  
Landroid will go to its base and stay there. Please note Landroid will now wait until the next scheduled mowing session. If you want to re-start it at anytime, press start then OK to start your Landroid.
- C. If an error repeatedly occurs in the same area of your lawn, you might have a problem with the boundary wire so please refer to the installation instructions and check your set up is correct with its help.
- D. If your lawn is divided in two separated areas, connected by a corridor less than 1m wide, one of which is not provided with the charging base: when Landroid runs out of charge, take it manually to the charging base.
- E. If Landroid runs abnormally once in a while, please reset it by turning it off and removing the battery for 30 seconds, then restart it. If the problem cannot be solved, please contact our Customer Service for help.

## 7. TROUBLE SHOOTING

If your Landroid does not work correctly, follow the trouble shooting guide below. If the fault persists, contact Customer Service.

| SYMPTOM                                              | CAUSE                                                              | SOLUTION                                                                                                                                   |
|------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| The LED light on the charging base does not turn on. | There is no power.                                                 | Check the charging base is connected properly to the charger and the charger is connected to a suitable power supply.                      |
| Red light on the charging base.                      | The boundary wire isn't connected.                                 | Check that the boundary wire has been connected correctly to the charging base. Check there are no breaks in the boundary wire.            |
| Landroid turns on, but the blade disc does not spin. | Landroid is searching for the charging base.                       | This is normal: when Landroid needs to recharge, the blade disc does not rotate while it is searching for the charging base automatically. |
| Landroid vibrates.                                   | The blade disc is unbalanced.<br>Blades may be damaged.            | Check the blades and replace them if damaged.<br>Remove debris and foreign objects from the blades and blade disc.                         |
| Grass is being cut unevenly.                         | Landroid does not work enough hours per day to cut the grass.      | Try adding more hours to the mowing schedule.                                                                                              |
|                                                      | Mowing area is too big for the size of Landroid you have.          | Try decreasing the size of the mowing area or increasing working time.                                                                     |
|                                                      | The blades are dull and not sharp.                                 | Change all the blades and screws in order to balance the blade disc.                                                                       |
|                                                      | The cutting height is set too low for the length of the grass.     | Raise the cutting height and then gradually lower.                                                                                         |
|                                                      | Grass or another object has wrapped around the blade disc.         | Check the blade disc and remove any grass or other objects that might prevent it spinning.                                                 |
|                                                      | There is a build-up of grass in the blade disc or motor frame box. | Make sure the blade disc rotates easily. If need be, you may take off the blade disc and then remove the debris.                           |

|                                                                                                         |                                                                                                                       |                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Your Landroid is inside its working area and the boundary wire is connected, but '– E1 –' is displayed. | The boundary wire ends are clamped incorrectly.                                                                       | Reverse the boundary wire ends and reconnect to the charging station.                                                                                                                                                              |
| The charging time is far more than the rated charging time.                                             | Poor connection caused by debris on the charging strip.                                                               | Clean the contact pins located on the charging base and the charging strip on Landroid using a cloth.                                                                                                                              |
|                                                                                                         | The charging protection program is activated due to high temperature.                                                 | Place the charging base in a shady area or wait until the temperature has cooled down.                                                                                                                                             |
| The mower does not charge.                                                                              | There is no power.                                                                                                    | Check the power cord is connected properly to the charger and the charger is connected to a suitable power supply.<br>Make sure both the charging strips on the mower touch the centre of the contact strips on the charging base. |
| Landroid is starting to have shorter run-times between charges.                                         | Something is clogging in the blade disc creating friction and increasing power consumption.                           | Take off the blade disc and clean it. Maybe the grass is too high and too thick.                                                                                                                                                   |
|                                                                                                         | Landroid is shaking heavily because the blade disc is unbalanced.                                                     | Check the blade disc and blades, remove debris and foreign objects from the blades and blade disc.<br>Replace the blades with a new set.                                                                                           |
|                                                                                                         | The battery may be exhausted or old.                                                                                  | Replace battery.                                                                                                                                                                                                                   |
|                                                                                                         | The working time is up.                                                                                               | Reset the working time.                                                                                                                                                                                                            |
| Landroid is not operating at the correct time.                                                          | The clock is not set to the correct time.                                                                             | Set the clock to the correct time.                                                                                                                                                                                                 |
|                                                                                                         | Programmed cutting times for Landroid are not correct.                                                                | Change the time settings for the mower to start and stop.                                                                                                                                                                          |
|                                                                                                         | The percentage of weekly operating time set through APP has changed.                                                  | Set the correct percentage through APP.                                                                                                                                                                                            |
| Landroid cannot correctly dock with the charging base.                                                  | Environmental influences.                                                                                             | Restart Landroid.                                                                                                                                                                                                                  |
|                                                                                                         | Poor connection caused by debris on the charging strip.                                                               | Clean the contact pins located on the charging base and the charging strip on Landroid using a cloth.                                                                                                                              |
| The green light on the charging base turns on before charging is complete.                              | The charging base is overheating or overcooling.                                                                      | Place the charging base in a shady area or wait until it reaches the normal temperature.                                                                                                                                           |
| Landroid wheels skid or repeatedly slip.                                                                | Foreign obstacles, such as twigs and branches may be lodged under Landroid.                                           | Remove foreign objects from underside of Landroid.                                                                                                                                                                                 |
|                                                                                                         | The lawn is too wet.                                                                                                  | Wait until lawn has dried.                                                                                                                                                                                                         |
| Landroid runs outside the boundary wire.                                                                | The boundary wire of another Landroid or robotic mower is positioned too closely.                                     | Ensure at least 1m clearance is provided in between your boundary wire and that of your neighbor.                                                                                                                                  |
| Landroid does not mow an area within a boundary wire zone.                                              | In wet conditions, the boundary wire electric signal may leak where the wire has been joined or repaired incorrectly. | Check boundary wire joints. Insulate to provide a fully waterproof connection.                                                                                                                                                     |
| Landroid reverses or rotates erratically near the boundary wire.                                        | There is boundary wire electric signal leakage due to broken insulation.                                              | Repair damaged boundary wire with the wire connectors supplied.                                                                                                                                                                    |
| Landroid slips out of its working area going down a hill.                                               | Low grip of Landroid drive wheels.                                                                                    | Please check the wheels are clean and free of mud in order to have the maximum grip possible.                                                                                                                                      |
| Landroid operative system crashes when charging or on standby.                                          | Software or display fault.                                                                                            | Restart Landroid.                                                                                                                                                                                                                  |

|                                                       |                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Landroid shuts off when docking in the charging base. | Landroid fails to charge due to over temperature protection and is powered off.                                             | Place the charging base in a shady area or wait until the temperature has cooled down.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                       | Poor connection.                                                                                                            | Check the LED light on the charging base.<br>Check the connection between the contact pins located on the charging base and the charging strip.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Landroid stops in the working area.                   | There is an obstacle in the working area.                                                                                   | Remove the obstacle from Landroid's working area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                       | The cutting height is set too low for the length of the grass or the grass is too dense.                                    | Raise the cutting height and then gradually lower.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                       | The extended boundary wire should not exceed 350m or it may cause signal problem.                                           | Reduce the length of the boundary wire.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                       | The distance between the center of the lawn and the boundary wire should not exceed 25m or it may cause signal attenuation. | Reduce the distance between the center of the lawn and the boundary wire perimeter within 25m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Landroid flips over.                                  | There is an inclined obstacle on the lawn.                                                                                  | Exclude the obstacle from Landroid's working area.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Landroid fails to connect to the internet.            | Please check your router has the correct settings.                                                                          | Make sure your router is 2.4GHz. If your router has two settings, please enable the 2.4GHz band. Make sure your router is set to 802.11 mode and wireless setting is b/g/n mixed. Make sure your router has the SSID Broadcast function enabled when you connect the machine with the APP. You can close it after you connect successfully. Make sure DHCP function is enabled. If you changed your Wi-Fi network, you need to connect Landroid to the new network. If you have a "Fritz!box" router, please make sure activate "Allow communication between devices in same network" in the settings. |
|                                                       | Please check whether the router is disconnected or Wi-Fi SSID is changed.                                                   | Make sure the router is connected and Wi-Fi SSID is correct.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Environmental protection

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

### For battery tools:

Details regarding safe disposal of used batteries

At the end of the life of the appliance, remove the battery pack safely before disposing of the appliance. Do not throw batteries away or throw them in the normal trash can. Also do not dispose of the battery with the machine. Remove the used battery pack from the appliance and dispose of it at the nearest or convenient dedicated recycling facility. If in doubt, consult your local environmental protection department. Batteries may enter water cycle if disposed improperly, which can be hazardous for ecosystem. Do not dispose of waste batteries as unsorted municipal waste.

We, Positec Technology (China) Co., Ltd., hereby declare, that the below product(s) covered in this document are in conformance with the applicable security requirements in Schedule 1 of The Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulations 2023 ("**Security Requirements**")

Please note that this statement of compliance, including the Defined Support Period stated herein, is only applicable to products sold in the UK.

Positec Technology (China) Co., Ltd welcomes input on potential software vulnerabilities so that we can take appropriate steps to maintain the security of our products and systems. Information on how to report security questions, issues or possible incidents to the Product Security Team can be found here:

Link: <https://security.positecgroup.com>

## DECLARATION OF CONFORMITY

We,  
Positec Germany GmbH  
Postfach 680194, 50704 Cologne, Germany

On behalf of Positec declare that the product

Description **Robotic Lawnmower**

Type **WR168E WR169E (100-199 - designation of machinery, representative of Robotic Lawnmower) (Serial number is placed on the back page) with battery charger WA3810 / WA3811 and charging base WA4002.1**

Function **Cutting grass**

Complies with the following Directives,

**2006/42/EC, 2014/30/EU, 2014/35/EU, 2011/65/EU&(EU)2015/863, 2000/14/EC amended by 2005/88/EC, 2014/53/EU**

2000/14/EC amended by 2005/88/EC

|                                          |                     |
|------------------------------------------|---------------------|
| - Conformity Assessment Procedure as per | <b>Annex V</b>      |
| - Measured Sound Power Level             | <b>55.21 dB (A)</b> |
| - Declared Guaranteed Sound Power Level  | <b>58 dB (A)</b>    |

The notified body Intertek, Semko AB, NB-No. 0413 has carried out an EU type examination according to Directive 2014/53/EU and issued the following EU type examination certificate: SE-RED-2200106

Standards conform to,

**For Lawn mower: EN 50636-2-107:2015+A1:2018+A2:2020+A3:2021, EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A2:2019+A14:2019+A15:2021, EN 62311:2008, EN IEC 62311:2020, EN IEC 55014-1:2021, EN IEC 55014-2:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021**

**For Induction loop system: EN 303 447 V1.1.1, EN 303 447 V1.3.1**

**For Ultrasonic module: EN 55011:2016+A11:2020**

**For Bluetooth & Wi-Fi module (2.4G): EN 301 489-1 V2.2.3, EN 301 489-17 V3.2.4, EN 300 328 V2.2.2**

**For charger: EN IEC 55014-1:2021, EN IEC 55014-2:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A1:2019+A2:2021, EN IEC 60335-2-29:2021+A1:2021, EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A2:2019+A14:2019+A15:2021, EN 62233:2008**

**For Noise: EN ISO 3744:1995**

**For RoHS: EN IEC 63000:2018**

The person authorized to compile the technical file,

**Name Marcel Filz**

**Address Positec Germany GmbH Postfach 680194, 50704 Cologne, Germany**




2024/09/27

Allen Ding

Deputy Chief Engineer, Testing & Certification

Positec Technology (China) Co., Ltd

18, Dongwang Road, Suzhou Industrial

Park, Jiangsu 215123, P. R. China

## DECLARATION OF CONFORMITY

We,  
Positec (UK & Ireland) Ltd  
PO BOX 6242, Newbury, RG14 9LT, UK

On behalf of Positec declare that the product

Description **Robotic Lawnmower**

Type **WR168E WR169E (100-199 - designation of machinery, representative of Robotic Lawnmower) (Serial number is placed on the back page) with battery charger WA3810 / WA3811 and charging base WA4002.1**

Function **Cutting grass**

Complies with the following Regulations,

**Supply of Machinery (Safety) Regulations 2008**

**Radio Equipment Regulations 2017**

**Electrical Equipment (Safety) Regulations 2016**

**Electromagnetic Compatibility Regulations 2016**

**The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations**

**Noise Emission in the Environment by Equipment for Use Outdoors Regulations**

- Conformity Assessment Procedure as per **SCHEDULE 8**
- Measured Sound Power Level **55.21 dB (A)**
- Declared Guaranteed Sound Power Level **58 dB (A)**

The notified body involved

Name: Intertek, Semko AB (notified body 0413)

Address: Torshamnsgatan 43164 22 Kista Sweden

Certification No. : SE-RED-2200106

Standards conform to,

**For Lawn mower: BS EN 50636-2-107:2015+A1:2018+A2:2020+A3:2021, BS EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A2:2019+A14:2019+A15:2021, BS EN 62311:2008, BS EN IEC 62311:2020, BS EN IEC 55014-1:2021, BS EN IEC 55014-2:2021, BS EN IEC 61000-3-2:2019+A1:2021, BS EN 61000-3-3:2013+A1:2019+A2:2021**

**For Induction loop system: BS EN 303 447 V1.1.1, BS EN 303 447 V1.3.1**

**For Ultrasonic module: BS EN 55011:2016+A11:2020**

**For Bluetooth & Wi-Fi module (2.4G): BS EN 301 489-1 V2.2.3, BS EN 301 489-17 V3.2.4, BS EN 300 328 V2.2.2**

**For charger: BS EN IEC 55014-1:2021, BS EN IEC 55014-2:2021, BS EN IEC 61000-3-2:2019+A1:2021, BS EN 61000-3-3:2013+A1:2019+A2:2021, BS EN IEC 60335-2-29:2021+A1:2021, BS EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A2:2019+A14:2019+A15:2021, BS EN 62233:2008**

**For Noise: BS EN ISO 3744:1995**

**For RoHS: BS EN IEC 63000:2018**

The person authorized to compile the technical file,

**Name Jim Kirkwood**

**Address Positec (UK & Ireland) Ltd PO BOX 6242, Newbury, RG14 9LT, UK**




2024/09/27

Allen Ding

Deputy Chief Engineer, Testing & Certification

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