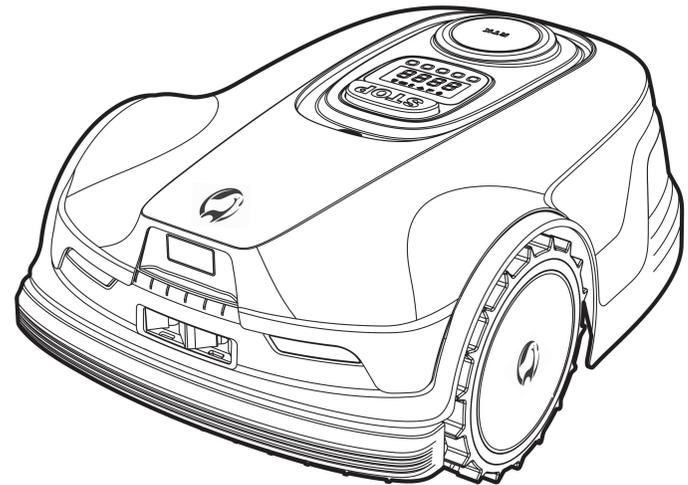


# User Manual

Proudeer Dw1500/Dw3000

Version: 1.0



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



App Download



# OPERATOR'S MANUAL

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## Robotic Lawn Mower

**EN 03**

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The illustrations in this manual are for reference only. Please refer to the actual product.

**EN** Original instructions

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## TABLE OF CONTENTS

<b>SAFETY INFORMATION</b> .....	1
Important safety instructions .....	1
What's in the box .....	6
<b>KNOW YOUR MOWER</b> .....	7
Control panel .....	8
Symbol explanation .....	9
Technical data and accessories .....	10
Main functions .....	11
<b>GETTING STARTED</b> .....	14
Preparation .....	14
Operation .....	14
Mapping .....	18
<b>GENERAL SETTING</b> .....	26
<b>MAIN TENANCE</b> .....	32
Keep it sharp .....	32
Keep it clean .....	33
Battery maintenance .....	34
Winter storage .....	35
Update .....	35
Error messages .....	36
Troubleshooting .....	38
Warranty .....	40
Declaration conformity .....	42

## IMPORTANT SAFETY INSTRUCTIONS

 **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.

- The mower 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 Mower.

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

### Safety guidance before use

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

### Preparation before use

- Make sure the charging station is properly installed according to the instructions.
- Periodically inspect the area where Mower is to be used and remove all stones, sticks, wires, bones, and other foreign objects.
- 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.
- Turn off Mower, 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**

- Never operate the appliance with defective guards or without the guard in place
- Do not put hands or feet near rotating parts
- Never pick up or carry Mower while it is running.
- Turn off the machine before clearing a blockage and before checking, cleaning or working on Mower.
- It is not permitted to modify the original design of Mower. All modifications are made at your own risk.
- Start Mower according to the instructions. When the power is switched on, make sure you keep your hands and feet away from the rotating blades.
- Never lift up Mower or carry it when the power is switched on.
- Do not put anything on top of Mower or its docking Charger Station.
- Do not allow Mower to be used with a defective blade disc or body. Neither should it be used with defective blades, screws, nuts or cables.
- Switch off Mower when you do not intend to use it for a long period of time.
- Mower can only start when the power is switched on and the correct PIN code has been entered.
- Avoid using Mower in bad weather conditions especially when there is a risk of lightning.
- Do not touch moving hazardous parts before these have come to a complete stop.
- Do not leave Mower to operate unattended if you know that there are pets, children or people in the vicinity.
- An advice to not overreach and to always keep the balance, to always be sure of the footing on slopes and to walk, never run while operating the machine or its peripherals.
- Instructions to always wear substantial footwear and long trousers while operating the machine.
- Remove the plug from the mains or operate the disabling device:
  - before clearing any blockages;

- before checking, cleaning or maintaining the machine;
- 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;
- An advice not to connect a damaged cord to the supply or touch a damaged cord before it is disconnected from the supply because damaged cords can lead to contact with live parts.
- If the cord on the power supply or the extension cable becomes damaged or entangled during use, disconnect the power supply from the power socket and then untangle. To avoid a hazard, pull the body of the plug rather than the cord when separating the power supply from the power socket. Contact after-sales service and have a professional technician to repair or replace the cord.
- Information 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!"

### **MAINTENANCE AND STORAGE**



- Attention:** When the mower is turned upside down the power must always be switched off. The power should be switched off during all work on the mower's underframe, such as cleaning or replacing the blades.
- Do not wash Mower with a pressure washer—due to the high pressure, water can go inside Mower and damage the electronic circuits.
  - To avoid injuries, wear protective gloves when replacing the blades.
  - Keep all nuts, bolts and screws tight to be sure Mower is in safe working conditions.
  - Inspect Mower each week and replace worn or damaged parts for safety.
  - Ensure that only replacement blades of the right type are used.
  - Ensure that batteries are charged with Mower's docking Charger Station. Incorrect use may result in electric shock or overheating of the battery.
  - Servicing of Mower should be according to manufacturers' instructions.

## Recommendation

Please only connect Mower 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

- The original packaging should be used when transporting Mower over long distances.
- To safely move Mower 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.

### Safety Warnings for battery pack inside the tool

1. Do not dismantle, open or shred battery pack.
2. 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.
3. Do not expose battery pack to heat or fire. Avoid storage in direct sunlight.
4. Do not subject battery pack to mechanical shock.
5. In the event of battery leaking, do not allow the liquid to encounter the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
6. Seek medical advice immediately if a cell or battery pack has been swallowed.
7. Keep battery pack clean and dry.
8. Battery pack gives its best performance when it is operated at normal room temperature (20 °C ± 5 °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 supplier. Do not use any charger other than that specifically provided for use with the equipment.

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 battery pack out of the reach of children.
13. Retain the original product literature for future reference.
14. Dispose of properly.
15. Do not mix cells of different manufacture, capacity, size or type within a device.
16. This appliance contains batteries that are only replaceable by skilled persons.



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



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

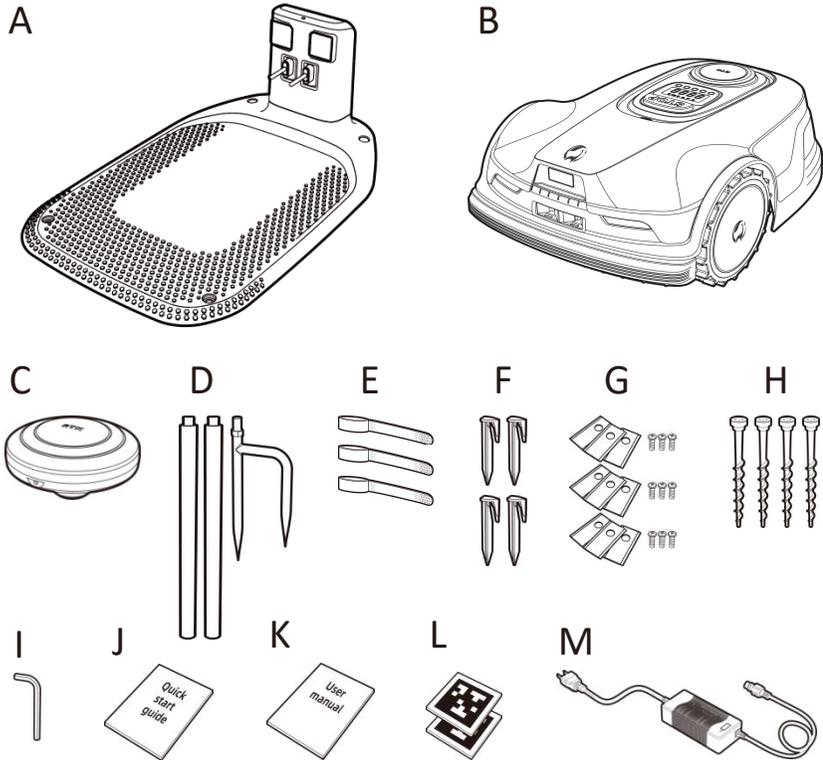


**WARNING!** Turn the machine off before working on or lifting the machine.



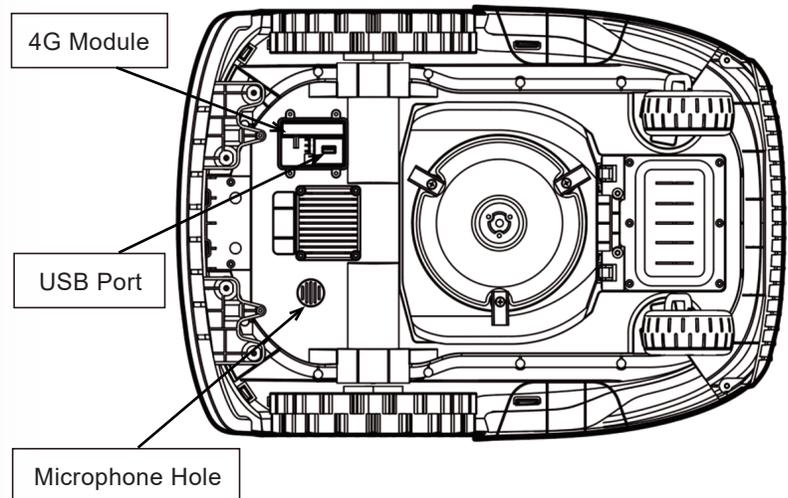
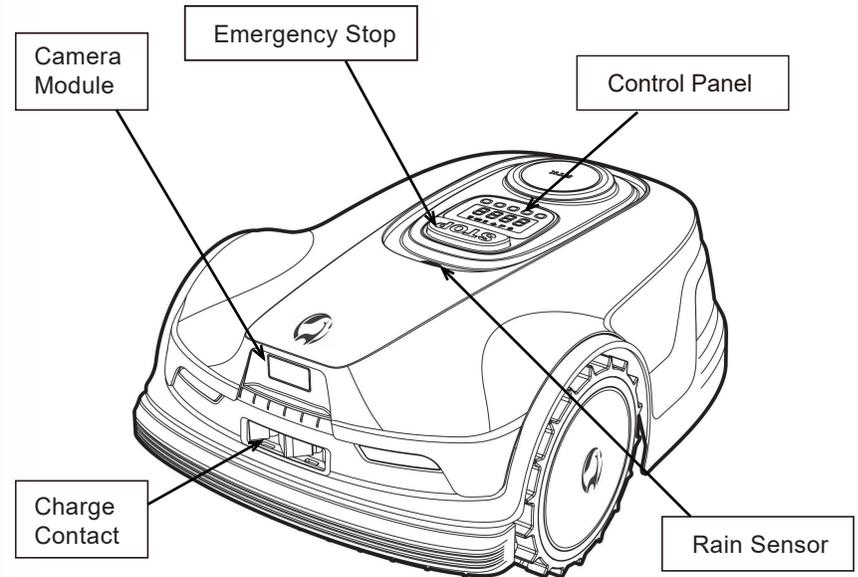
**WARNING!** Do not ride on the machine.

## WHAT'S IN THE BOX



- |  |   |
|--|---|
| <p><b>A</b> Charging Station with 10 meters extension cord *1</p> <p><b>B</b> Wire-Less Mower *1</p> <p><b>C</b> RTK base station *1</p> <p><b>D</b> RTK base station holder with triangular fork *1</p> <p><b>E</b> Velcro straps to fix RTK base station *2</p> <p><b>F</b> Cable pegs to fix RTK base station*4</p> | <p><b>G</b> Spare blades with screws *9</p> <p><b>H</b> Nails for charging station *4</p> <p><b>I</b> Wrench*1</p> <p><b>J</b> Quick start guide *1</p> <p><b>K</b> User manual *1</p> <p><b>L</b> Spare QR code sticker for charging identification *2</p> <p><b>M</b> Charger for charging station *1</p> |
|--|---|

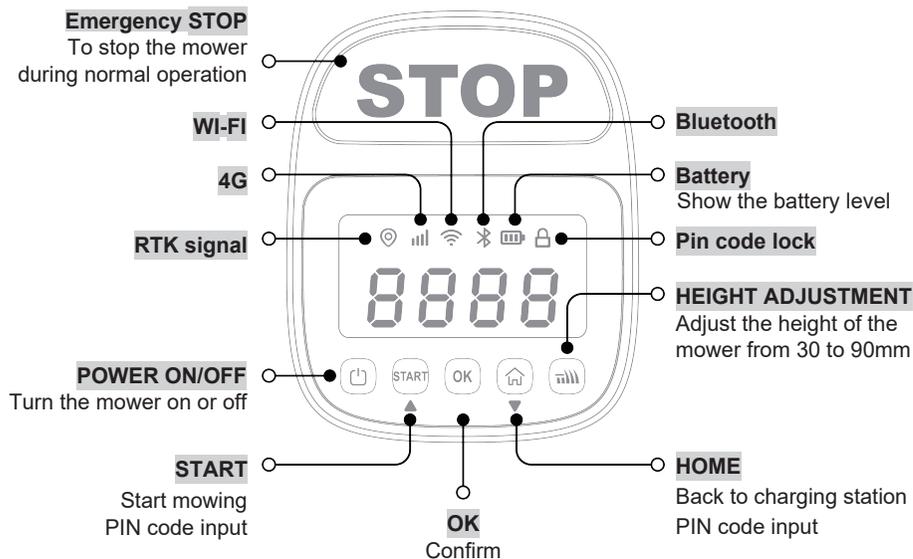
## KNOW YOUR MOWER



## CONTROL PANEL

Mower's control panel provides the key functions in a minimalist design.

For advanced functions, the free Mower app provides further options in a richer interface.



Basic operation	Instruction
Power on/off	Press and hold On/Off button for 3s.
RTK signal	Red: No signal Orange: Weak signal or it's about to enter normal signal Green: Normal signal
Start mowing	Press Start and then press OK.
Stop mower operation	Press STOP.
Send mower to the charging station	Press HOME and then press OK.
Restart the mower	Power off then Power on.
Unlock the mower	Input the default PIN 0000 by pressing the following buttons in sequence: START->OK->OK->OK->OK.
Height adjustment	Press  button to adjust cutting height and then press OK.
Unbind the mower	Hold down the OK button for more than 3s to unbind the mower from APP and enter PIN code to confirm it.

## SYMBOL EXPLANATION

This page depicts and describes safety symbols that may appear on this product.

Read, understand, and follow all instructions on the machine before attempting to assemble and operate.

	<b>WARNING</b> – Read user instructions before operating the machine.
	<b>WARNING</b> - Keep a safe distance from the machine when operating.
	<b>WARNING</b> – Operate the disabling device before working on or lifting the machine.
	<b>WARNING</b> – 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.
	Prohibit disassembling the machine without authorization.
	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.
	This attachment is in accordance with applicable EC directives.

	Noise emission to the environment label as per EU and UK directives and regulations, and New South Wales legislation "Protection of the Environment Operations (Noise Control) Regulation 2017" .
	Class III appliance
	Read operator's manual

## TECHNICAL DATA

Model	Dw1500	Dw3000
Rated voltage	18V	18V
No load speed	2500 /min	2500 /min
Cutting area	1500 m <sup>2</sup>	3000 m <sup>2</sup>
Cutting diameter	22 cm	22cm
Cutting height	30-90mm	30-90mm
Battery type	Lithium-ion	Lithium-ion
Charging time approx.	100 mins (20% ~100%)	150 mins (20% ~100%)
Charger rating	Input:100-240V~50/60Hz Output: 23V 3.0A	Input:100-240V~50/60Hz Output: 23V 3.0A
Machine weight	14 kg	16 kg
Protection degree	Class III	Class III
App	Yes	Yes
Battery capacity	6Ah	9Ah
Mapping	Yes	Yes
Continuous cutting	Yes	Yes
Max. slope	35%	35%
IOT Connection	Wifi+Bluetooth+4G	Wifi+Bluetooth+4G
Protection index	IPX6	IPX6
Cutting blade	SK5, 3 PCS	SK5, 3 PCS
Sound power level LWA	61dB(A) K <sub>WA</sub> =3 dB(A)	61dB(A) K <sub>WA</sub> =3 dB(A)
sound pressure level LpA	53dB(A) K <sub>PA</sub> =3 dB(A)	53dB(A) K <sub>PA</sub> =3 dB(A)

## ACCESSORIES

Model	Dw1500/3000
Charger Station with 10 meters extension cord *1	1 PCS
Nails for charging station	4 PCS
Charger for charging station *1	1 PCS
Spare QR code sticker for charging identification	2 PCS
Wire-Less Mower	1 PCS
RTK base station	1 PCS
RTK base station holder with triangular fork	1 PCS
Cable pegs to fix RTK base station	4 PCS
Velcro straps to fix RTK base station	3 PCS
Spare blades with screw	9 PCS
Wrench	1 PCS
Quick start guide	1 PCS
User manual	1 PCS

Please contact supplier for additional information on accessories.

## 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 mower may be programmed to operate at any time or frequency. It is impossible for digging, sweeping or snow cleaning.

## MAIN FUNCTIONS

In the following section, we would like to help you better understand how the mower works.

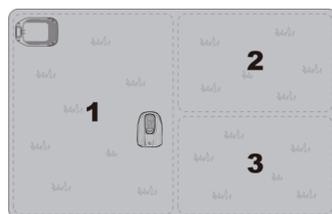
Your mower is an autonomous machine, capable of operating on its own. It knows when it needs to go to its charging station, can sense when it is raining, can stop itself if it senses a problem and knows to stop, drawback, and turnaround when it bumps into something blocking its path. To prevent an accident, the mower will also automatically stop its blade disc from rotating if it is lifted off the ground.

## 1. No Boundary Wire

This robotic lawn mowers are equipped with a RTK (real-time kinematic) navigation system, a multi-sensor integrated navigation system, and a 3D vision positioning system (RGBD), which provide more accurate positioning data, mower can thus accurately locate its position in real time and determine whether it is within the working area, and there is no longer a need to confirm its position by installing boundary wires.

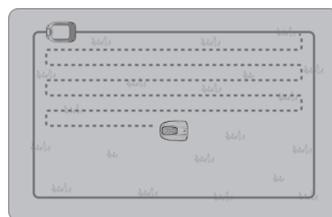
## 2. Multi-zone Management

You can create multiple mowing zones according to the situation of your garden. e.g. set front yard as Zone 1 and backyard as Zone 2 or 3. You can specify a certain zone for mowing. For instance, you can make the mower work only in the front yard (Zone 1). You can also demarcate a specific area within Zone A for extra mowing. Additionally, you can set a no-mowing area on the already established map.



## 3. Parallel Cutting

Inside the work area, the mower will mow the lawn along a planned path calculated by an algorithm for maximum efficiency. The mower can change its mowing directions according to your choices. This avoids repetitive mowing tracks.



## 4 Charge itself and auto resume mowing

If the battery power is too low, the mower will automatically stop the current mowing task and return to the charging station to charge. As enough power is restored, it will return to the previous position and resume the mowing tasks.

## 5. Obstacle avoidance

This robotic lawn mower can detect objects ahead in real time using its AI camera technology, and an ever growing and extensive database of images. Non-grass things, such as tree stump, water pipe and balls will be avoided.

## 6. Automatic height adjustment & Floating cutter disc

You can set the mowing height very conveniently through the app. The design of the floating cutter disc can prevent the mower from getting stuck by low obstacles such as dead branches and tall grass clumps.

Mower's cutting height can be adjusted between 3cm to 9cm. Before starting your mower for the first time, you should cut the grass to the height no more than 10 cm (1/3 ft) with your manual lawnmower. If you want to drastically shorten the height of your grass, it is recommended that you do so progressively, by adjusting the cutting height in steps.

## 7.Rain sensor & Rain delay

This mower is 100% weather proof and happy to be outside. But mowing wet grass does not give you the best result.

This mower is equipped with a rain sensor which detects rain and tells mower to stop mowing and go back to its charging base. Mower then re-starts mowing when the grass is no longer wet. The default Rain Delay time is 180 minutes. You can change the Rain Delay time setting via the App.

## 8.Security & PIN Protection

To prevent unauthorized people from being able to use it, this robot mower is protected by a PIN code that you can easily set up.

Besides, this mower also supports child lock function to prevent children or bystanders getting access to the settings. You can lock it on your smartphone via the App.

# GETTING STARTED

## 1. Preparation

- 1.1 Read and understand the safety instructions prior to installation.
- 1.2 Use original parts and installation materials.
- 1.3 Sketch your lawn and mark up obstacles. This will make it easier to examine where to place the charging station and RTK station, and to set the virtual boundaries.
- 1.4 Before using mower to start mowing, please cut your lawn to a height of no more than 10 cm (3.94 inches). Remove debris, piles of leaves, toys, wires, stones and other obstacles. Make sure children and pets are off the lawn.

## 2. Choosing a Location for Charging Station and RTK Station

The basic principles are:

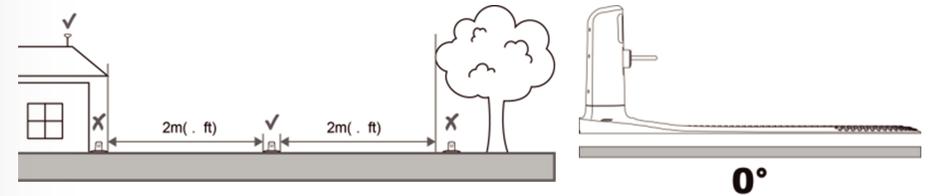
1. Remain a certain distance away (greater than 2 m/6.6ft) from houses, trees and walls.
2. Place the charging station and RTK station in an open space with nothing blocking the signal (for example, the tree canopy or the sunshade umbrella).
3. Place the charging station and the RTK station on a flat non-hardened ground and keep them upright. DO NOT install them on a slope.

### 2.1 Charging Station Location

The charging station determines the location where the mower will stay for charging. If the charging station is not properly located, the mower may fail to start mowing due to weak GPS signal. You can locate the charging station close to the RTK station, or ensure there are enough number of Co-visible Satellites between the RTK station and the mower. Install the charging station on a soft and flat surface. When placed outside, the charging station and the lawn should be kept at the same level.

- Make sure the sky view on the same side with the RTK station is unobstructed.
- Install it in an open space with nothing blocking the signal within a radius of 2m (6.6ft).
- Do not cover the charging station.

- Stay away from sprinkler heads, fountains or other outdoor water systems.
- Stay away from substations, generators, water pump stations and air conditioner.

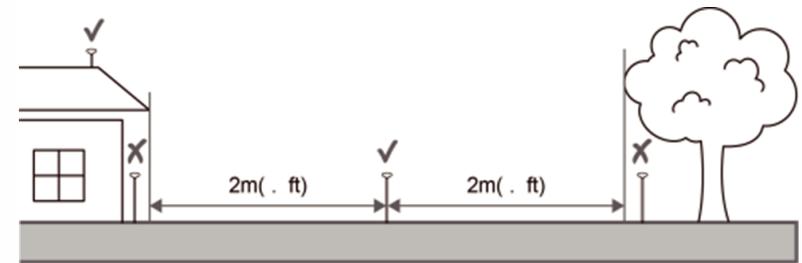


### 2.2 RTK Station Location

Choosing the RTK Station location is one of the most important steps in setting up your mower. It needs to be installed in a place that allows it to share as many Co-visible Satellites as possible with the mower from any point on your lawn. Otherwise, the mower will struggle to locate itself accurately during mowing.

The guidelines for finding a proper location are:

- Choose an open area with no walls blocking views in any direction if possible. Make sure the sky directly above the RTK station is not obstructed by trees or roofs.
- At least keep the southern sky clear when in the Northern Hemisphere, or the northern sky when in the Southern Hemisphere. (If possible, try to keep the east and west sides clear of obstacles.)



-  Please choose the location carefully. Once the map is saved, if the location of the charging station or RTK reference station is changed, you need to create a new map.

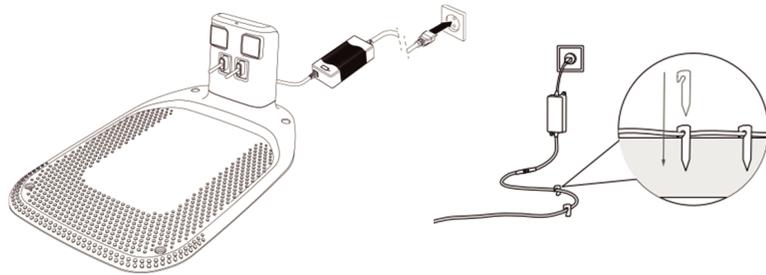
### 3. Install Charging Station

3.1 Connect the 10m power supply cable on the lawn mower to the power adapter interface, turn the nut until they lock together.

3.2 Insert the power plug into a suitable power socket.

3.3 Fix the position of the cables on the ground.

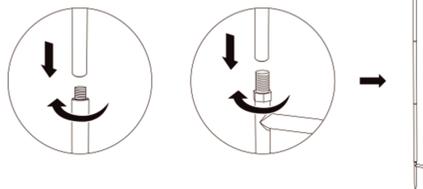
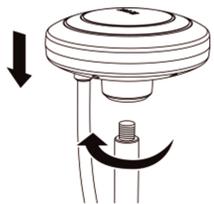
3.4 Fix the charging station with the nails (see the accessory H in the page 6) on the ground.



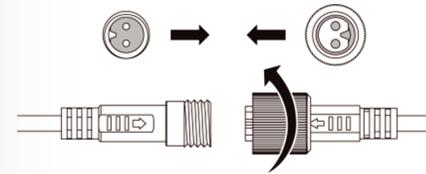
### 4. Install RTK Station

4.1 Fix the RTK station on the tube.

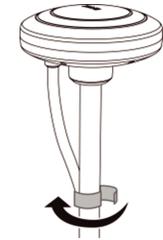
4.2 Fix the other extension tubes and the trident ground stake.



4.3 Connect the RTK station to the charging station.



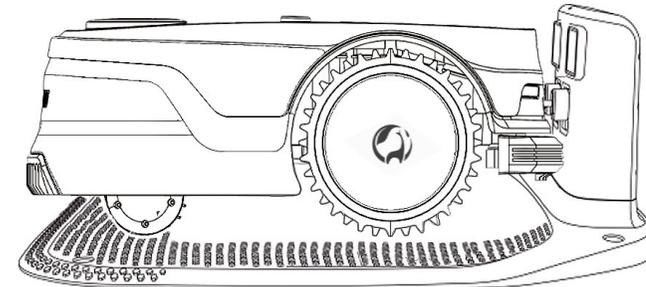
4.4 Secure the cable on the tube with supplied loop tapes.



4.5 If the RTK connection is successful, there will be green light on the RTK station.

### 5. Activating

After installation completion, place your mower on the charging station by making sure a good contact is established with the base. The LED light on the charging station will be red when charging; once the battery is fully charged, the LED will turn solid green. There is also an LED light on the RTK Station, and if the light is on, it means that the power supply is good.



### NOTE:

- Place the charging station in a location that is as open as possible with a good Wi-Fi signal. Make sure that no objects might block the signaling area.
- During charging, the mower will automatically update to the latest version, or you can choose to upgrade it in the App.

Now, let the mower charge the battery for a while. While it is charging you may want to take a well-deserved break: get familiar with the following instructions, and connect the mower to your Wi-Fi network.

# MAPPING

## 1. Preparation

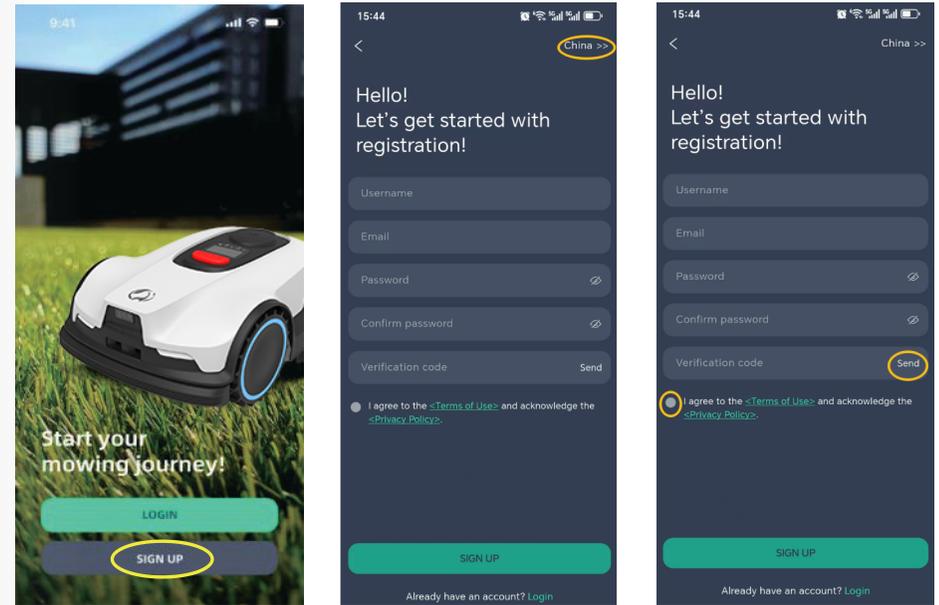
- Please read and understand the safety operation guide before operation.
- The charging station and RTK station have been properly installed.
- Ensure mower has already docked on the charging station.
- Ensure there is a good Wi-Fi or hot spot signal.
- Keep your Phone Bluetooth on.

## 2. Download the App

Search “ProudeerMow” in Google Market or Apple Store or scan the QR code on the front cover of the User Manual.

## 3. Sign-up and Login

After successfully install the app in your phone, you are ready to create your account. Follow the below instructions to register one.



- Tap Sign up.
- Select your location, choose the corresponding one based on your actual location where the mower is used or the 12-13th character of your mower SN number (The SN number format is like PRDW1500PPEUxxxxxxxxxx).
- Click "Send" on the right of "Verification code" bar, the App will send a 6-digit number of verification code to your email, check your email. Input the code (The verification code is valid for 10 minutes. If it expires, tap Send again to get a new one).
- Check the Privacy Agreement User Agreement and click Next to set your password (Passwords must be 8 to 16 characters with at least two of the following: letters, numbers, and special characters).
- Tap Confirm and Login to finish the sign-up. Input your email address and password, check the Privacy Agreement User Agreement, and then tap Login.

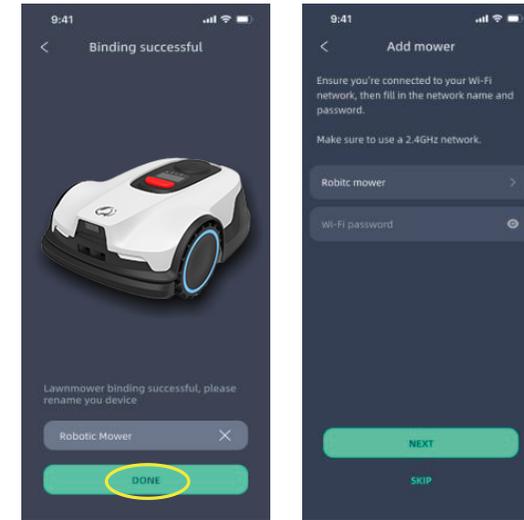
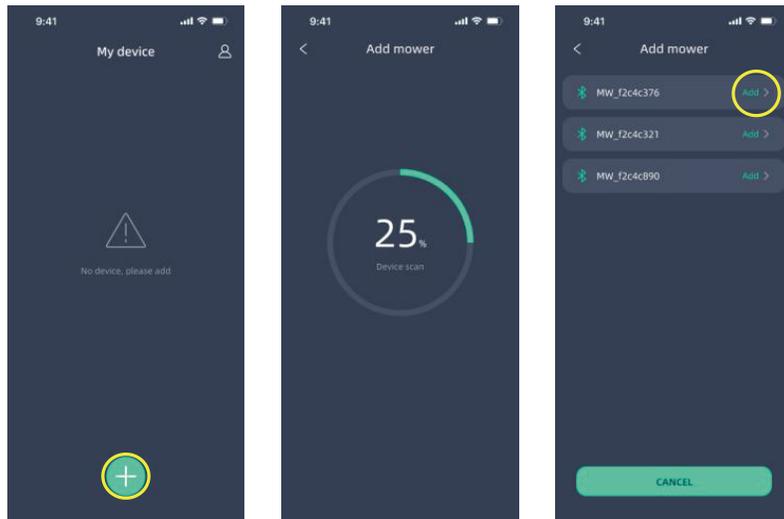
## 4. Add Your Robotic Mower

- If you add mower via blueooth, please make sure the distance between your phone and the robotic Mower is less than 3m.
- You can skip the Wi-Fi setup if you are using 4G cellular data. It's recommended to connect a Wi-Fi network for optimal performance.

The steps to add a machine using Bluetooth are as follows:

1. Click "+" to add your mower.
2. The app will scan your mower.
3. Select your mower name and tap "Add".
4. Binding successful and rename your mower.
5. You can choose to connect to your WiFi network and fill in the network name and password. The mower supports 2.4/5G network.

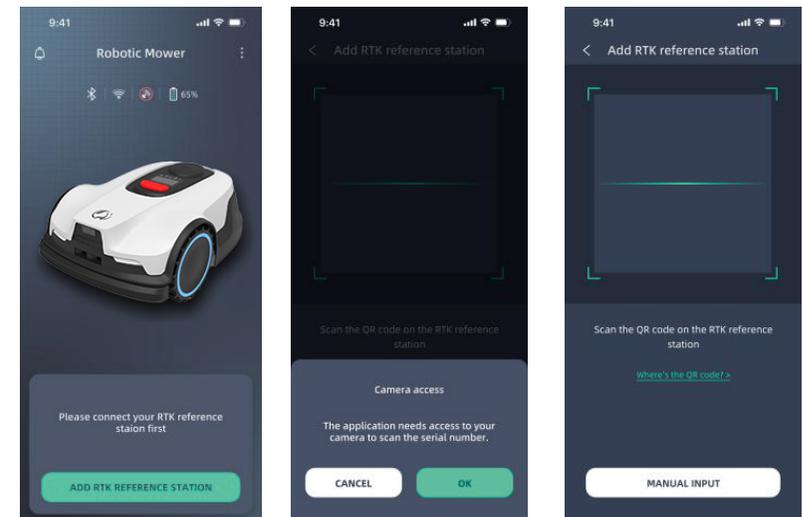
**NOTE:** Make sure the Bluetooth on your phone is turned on.

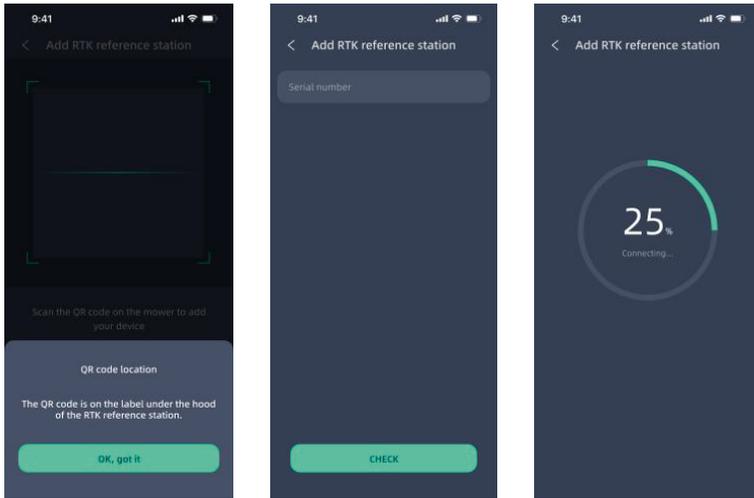


## 4.1 Add RTK station

1. Please add your RTK station first via App.
2. The application needs access to the camera of your phone to scan the QR code.
3. Scan the QR code which is on the lable under the hood of RTK reference station.
4. Tap "CHECK" to finish adding base station step, which will take a few seconds

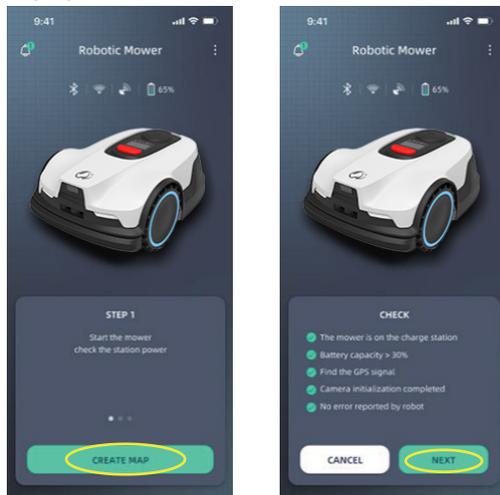
**NOTE:** Make sure the RTK reference station is powered on.





## 5. Create Charging Station and Maps

1. Before creating map, you need to enter Pin code to unlock the mower via the Control Panel: use START, Home and OK buttons to input and confirm the Pin code.
  2. Tap **"CREATE MAP"** to start mapping process.
  3. Before you create your map, mower will start and complete the self-check function. If the self-check function fails, please follow the error prompt to solve it.
  4. After the self-check completed, tap **"NEXT"** to create charging station & maps.
- NOTE:** Default Pin code is 0000. Quick guide completed, charging station installed, lawn mower in charging station.



## 5.1 Create Charging Station

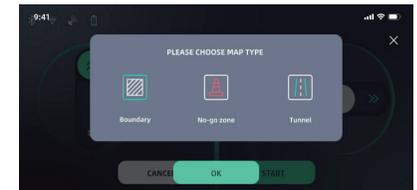


## 5.2 Create Map

After the charging station is created, it will automatically jump to the map creation page, which includes three types of map : Boundary, No-go zone, Tunnel.

### 5.2.1 Create Boundary

- a. Tap **Boundary > OK** on the map page, it will confirm the map type and enter the page for remotely controlling mower to move.
- b. Move the lawn mower via remote control to the location where you want to start creating the map. Click **"START"** to create a starting point and start mapping.
- c. Then remotely control the lawn mower to move along the edge of the lawn and draw the boundary of the map.



d. Complete the map boundary drawing and return to within 0.8m of the starting point. Click the '**FINISH**' button to complete the map creation.



e. Tap **COMPLETE** to complete the whole map creation. Or tap **NEXT MAP** to continue mapping process.



You can continue to create another boundary map or restricted area map by following the above steps.

**Note: 1.** To create a tunnel, it is necessary to create two or more area maps.

**2.**When you need to create multiple maps, please ensure that the distance between two adjacent boundaries is no less than 1 meter.

**3.**When the map you create includes scenarios with narrow passages, or irregularly shaped maps with adjacent boundaries, please ensure that the distance between narrow passages/adjacent boundaries is no less than 1 meter.

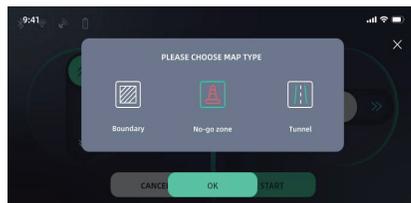
**4.**When creating map boundaries, if there are steps or other obstacles along the lawn edge, ensure the distance between the outer edge of the mower body and the steps/obstacles is greater than 25cm. For right-angle areas formed by walls or similar structures, maintain a distance of 35cm to provide sufficient space for the mower to turn.

**5.**During map boundary creation, if the lawn is adjacent to houses, walls, or metal fences (with a height exceeding 1m), it is recommended to keep a distance of over 1.5m between the boundary and such structures.

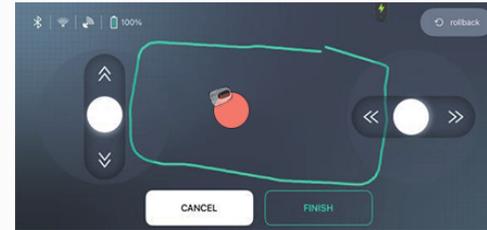
**6.**Long press the "Rollback" to move the mower back to the previous position to re-create the boundary during creating map .

### 5.2.2 Create No-go zone

a. Tap **No-go zone** > **OK** on the map page.

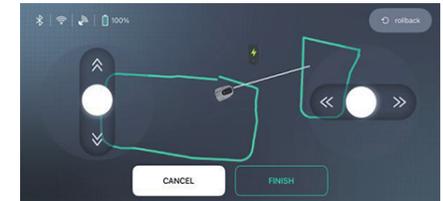
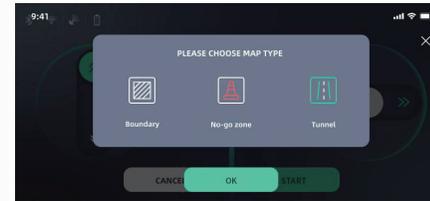


b. Control your mower to go around the obstacles via App, so as to create a **No-go zone**.



### 5.2.3 Create Tunnel

a. Tap **Tunnel** > **OK** on the map page.



b. Control your mower to travel along the passage from area A to area B, thus creating a **Tunnel** map between the two areas.

#### **Note: Safety Instructions for the Tunnel**

##### 1. Keep the Tunnel Clear

Ensure there are no obstacles inside the tunnel at any time.

##### 2. Do Not Place Items on the Tunnel

Never place any items on top of or within the tunnel structure.

##### 3. Robotic Mower Behavior

Warning: The mower is designed NOT to perform obstacle avoidance maneuvers when entering or moving through the tunnel for safety reasons.



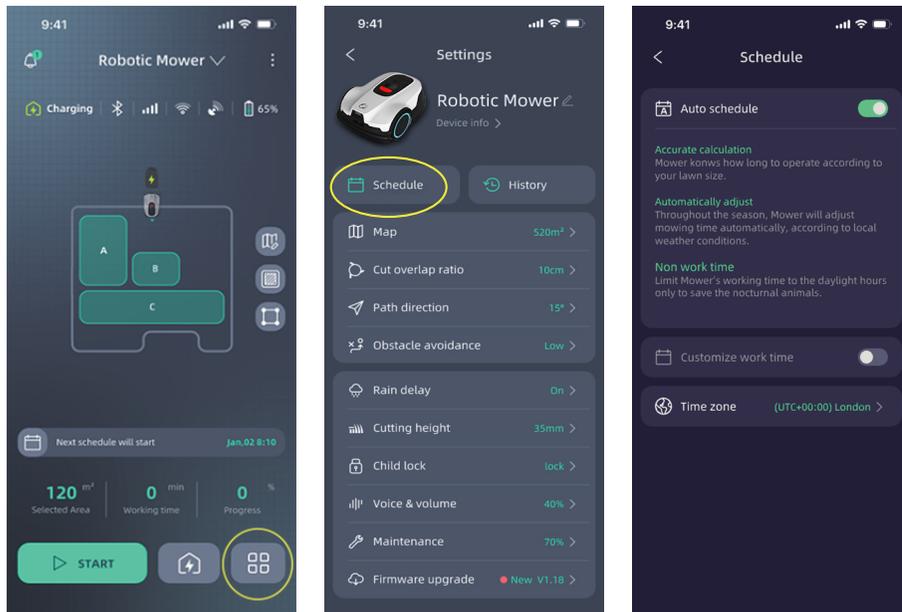
# GENERAL SETTINGS

## 1. Setting of mowing time

**Note:** Your mower creates its own automatic schedule and working time based on the size of your lawn and other factors. Our recommendation is not to manually adjust these settings.

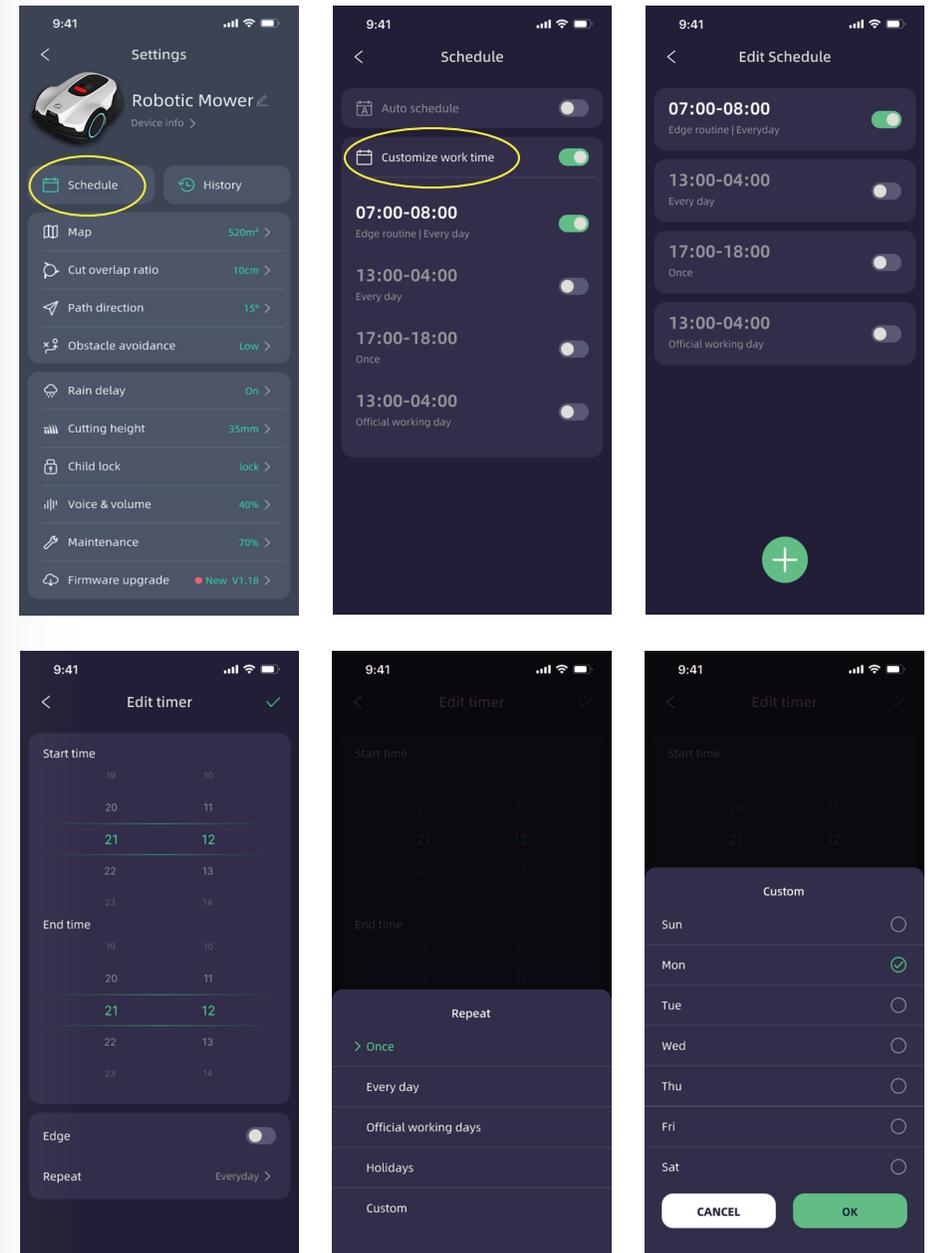
Set the mowing time in the app, follow the simple on-screen menus.

"Setting"— "Schedule"— "Auto schedule". The mower automatically adjusts its mowing time to the size of your lawn after mapping finished.



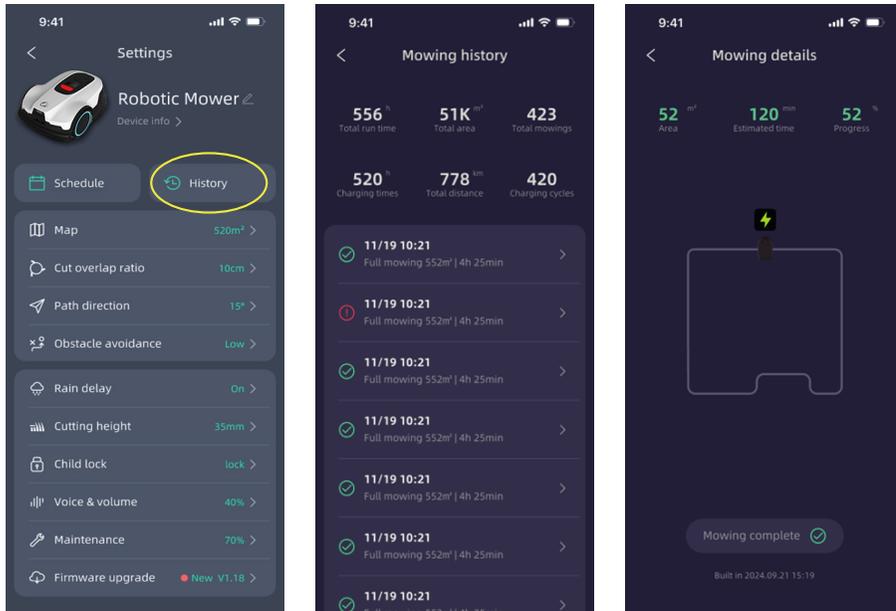
## 2. Customize work time

1. "Setting" → "Schedule" → "Customize work time".
2. Set it as the schedule you want and save it.
3. Back to "Schedule" and enable the task.



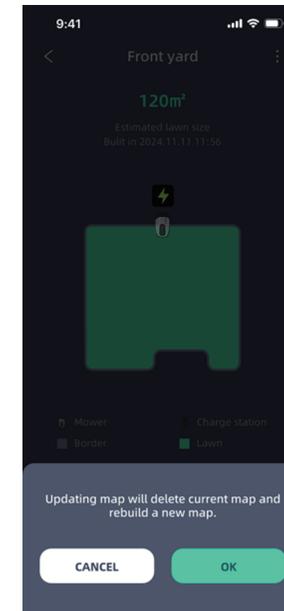
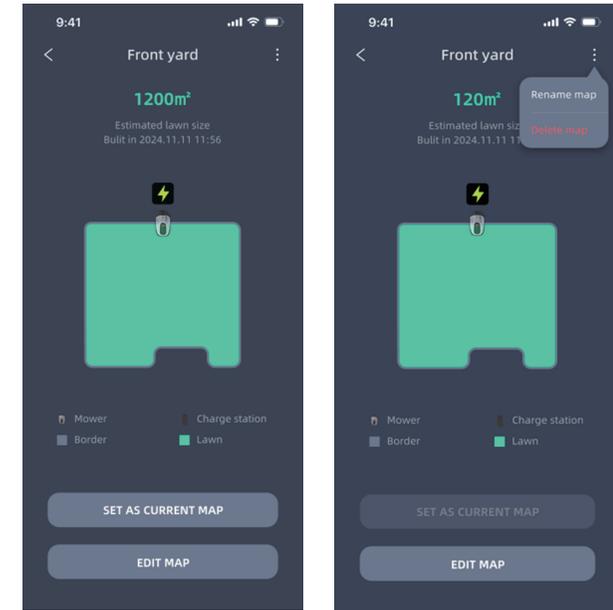
### 3.Mowing History

1. "Setting" → "Schedule " → "History".
2. Cutting completed record.
3. Record the cut map.
4. Mowing interrupted, Description issue While moving, the wheels were lifted off the ground by obstacles such as rocks, potholes, etc., interrupting the mapping function.



### 4.Multi-zone management

The number of maps that can be created is limited to one, and a maximum of 20 independent zones can be set within a single map.



## 5. Changing PIN code through the App

To make your mower safer and more secure, change the default 0000 PIN to a PIN of your choice.

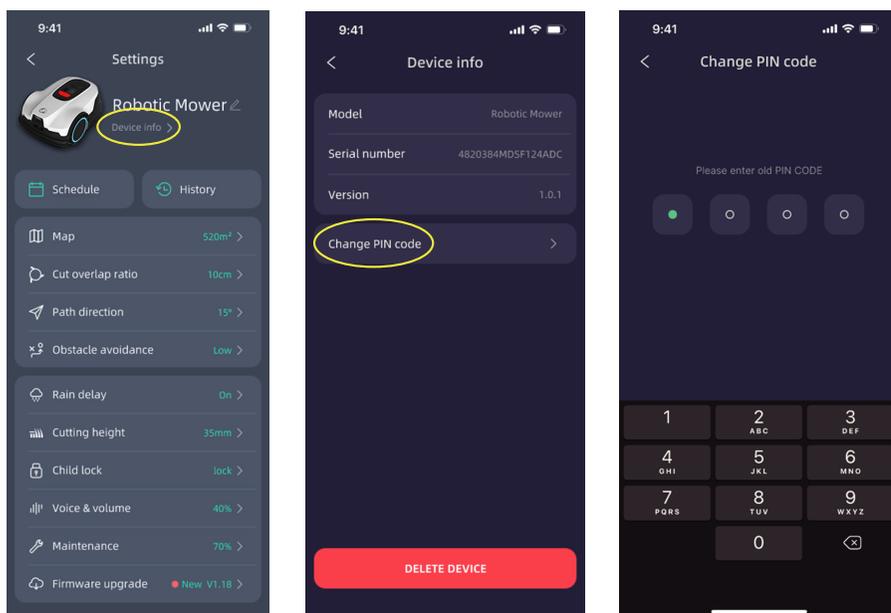
- Turn Mower on and unlock it by pressing START on the Control Panel, then use START and Home icon to input the PIN code, and press OK to confirm.
- Change the PIN with the App.

**IMPORTANT:** Write down the PIN code and keep it in a safe place.

Please note that in case you forget your PIN, you will not be able to operate mower. To make Mower as secure as possible, there is no reset procedure for the PIN that can be operated by anyone, including mower authorized service centers.

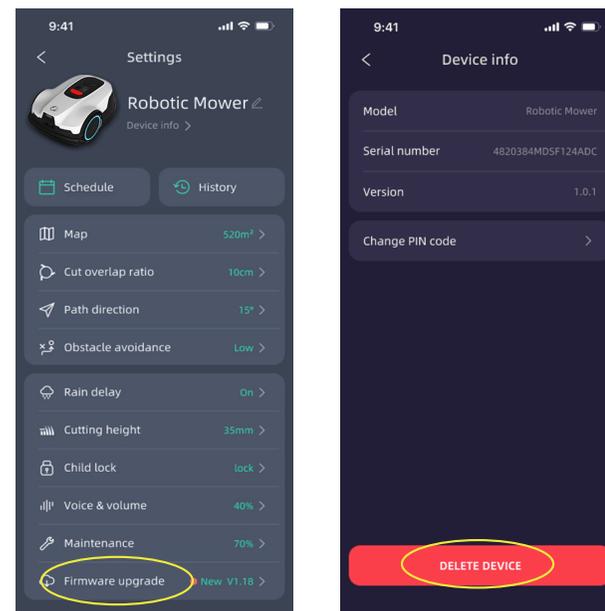
If you decide to re-sell or return your mower in the future, please restore the factory default 0000 PIN before delivering it to the new owner, or give your personalized PIN to the new owner.

If you are delivering your mower to a Service Center, please let them know your PIN code.



## 6. More settings

More settings can be checked in the App, like Device Update/ Remove Device and so on.



## MAINTENANCE

Your mower works hard and needs to be cleaned and checked from time to time. This section of the guide helps you keep Mower in good shape so it can last for years without troubles. Here's how to take care of your mower.

### KEEP IT SHARP

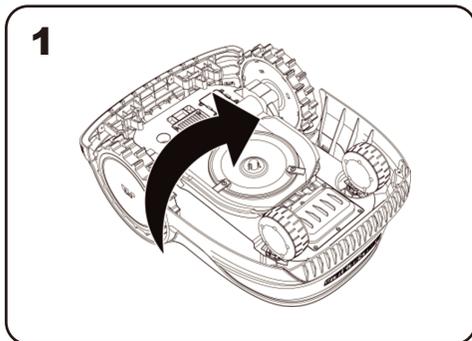
Mower does not cut grass like other mowers. Its cutting blades are razor sharp on 2 edges and rotate in both directions for maximum cutting capacity.

- 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.
- Each cutting blade will last up to 200h when it is programmed to mow every day.
- Always check to see if the blades are chipped or damaged and replace them if they are.
- When the cutting blades are dull and worn out, they should be replaced with the spare blades provided with your mower. Spare blades are also available at your nearest Mower retailer.

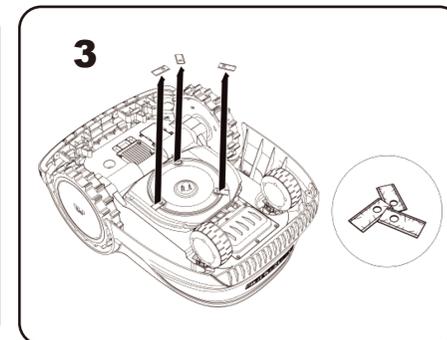
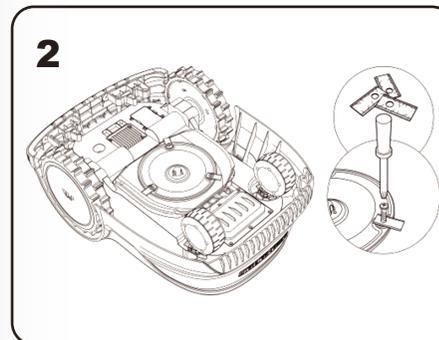
**⚠ WARNING!** Before cleaning, adjusting, or replacing the blades, turn your mower OFF. Always wear protective gloves.

### REPLACING THE BLADES

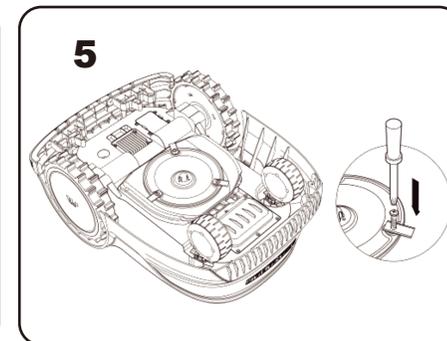
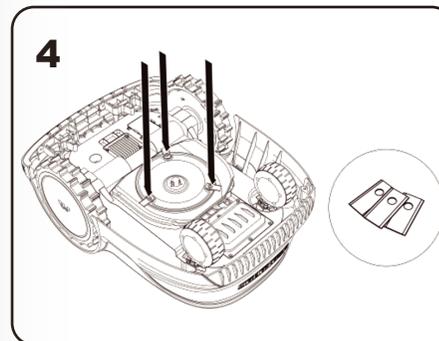
Gently flip the mower over (fig.1)



Take the screws off the blades with a screwdriver (fig. 2 - 3)



Firmly screw on the new blades (fig. 4 - 5)



**⚠ 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 can spin freely.

### KEEP IT CLEAN

Your mower 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 Mower off before cleaning it. For extra safety.



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

### **Cleaning the upper body**

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

### **Cleaning the Bottom**

- Flip Mower upside down.
- Remove debris and grass clippings using a brush to remove.
- Be careful not to touch the blades with your hands. Wear gloves for protection.
- Clean the blade disc, the chassis and the front wheel(s) thoroughly with a soft brush or moist rag.
- 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 affects mowing performance.
- Check the blades spin freely around the fixing screws. Remove any obstructions.

### **Cleaning the drive wheels**

- Remove mud from wheels with a brush in order to ensure good grip of the tread.
- Clean the contact pins located on the charging station and the charging strips located on the mower using a cloth.
- Periodically remove any build-up of grass clippings or debris around the contact pins and the charging strips to ensure Mower successfully charges each time.

### **BATTERY MAINTENANCE**

- For the proper storage of the battery, make sure it is fully charged and kept in a cool dry place between -20 °C ~60 °C.
- The recommended Mower operation temperature is between 0-40 °C.

- The recommended battery charging temperature is between 0-40 °C.
- The life-span of Mower's battery depends on hours of usage and the length of use per day during the mowing season.

### **Battery maintenance during storage**

- Mower can be charged manually without the boundary wire.
- Connect the charging station to a suitable power supply. The green light on the charging station will turn on.
- Manually dock your mower into the charging station while the mower is powered off.
- The light on the charging station turn to solid red and the mower start to charge.
- When the battery is fully charged, the light will turn to solid green.

### **WINTER STORAGE**

Although Mower 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 storage:

- Clean it thoroughly.
- Fully charge the battery.
- Turn the power off.

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

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

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

### **UPDATE**

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

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

If your mower 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.

## ERROR MESSAGES

Sometimes things might go wrong. Fortunately, Mower is smart enough to tell you what type of problem it is, so you can fix it. If in doubt, please visit our website where you will find useful videos and further support.

Error code	Description	Action
E008	STOP Exception	Please ensure the STOP button is fully released and returns to its normal position. After confirming, wait 5~10 seconds for recovery. If the issue persists, power off the machine and restart it for further inspection. If the problem still exists after these steps, please contact us.
E010	RTK Base Station Communication Error	Please check if the RTK base station's green indicator light is steady or blinking. If the light is off: 1. Check if the charging dock is powered on. 2. If the dock is powered on, ensure the RTK base station is properly connected to the dock. 3. If the RTK base station is confirmed to be powered on, try unbinding and rebinding it via the Mower App. If the issue persists, please contact us.
E014	Cutter Motor Overcurrent	If the issue persists after stopping, power off the robot, flip it over, and clean any grass debris around the blade and guard. If the problem remains unresolved, contact us.
E019	Lift Motor Rise Exception	If the issue persists, power off the robot, flip it over, and clean any grass debris between the blade, guard, and chassis. If the problem remains unresolved, contact us.
E021	Charging High-Temperature Protection	Ensure the working environment temperature is normal. The recommended operating temperature is 4~40°C. If the ambient temperature exceeds 40°C, wait for about 30 minutes or cool down before charging.
E025	Battery Discharge Over-Temperature Exception	Power off and restart the robot. If the issue persists, contact us.
E027	Lift Exception	If the issue persists after stopping, power off the robot and check if the rear wheels are stuck or not properly installed. . If the problem remains unresolved, contact us.

E028	Slipping	Power off and restart the robot. If the issue persists, contact us.
E038	Left Drive Motor Overcurrent	Check if the left drive wheel is stuck. If cleaning does not resolve the issue, try restarting the robot. If the problem persists, contact us.
E043	Right Drive Motor Overcurrent	If the issue persists after stopping, power off the robot, flip it over, and clean any grass debris around the blade and guard. If the problem remains unresolved, contact us.
E059	Collision Exception	If the issue persists after stopping, check if the front bumper is stuck. If the problem remains unresolved, contact us.
E068	RTK Communication Error	Confirm that the RTK base station is installed correctly reference to instruction in the page 16-17. If the installation is correct, please shut down and restart the machine.
E080	Vision Module Error	Power off and restart the robot. If the issue persists, contact us.
E085	Tilt Exception	Place the robot on a level surface and wait for about 10 seconds. If the issue persists, contact us.
E090	Out of Boundary	1. Ensure the RTK base station is installed within 2 meters of an unobstructed area and has not been moved. Then, move the robot back into the mapped area and try starting it. 2. If the issue persists, recreate the map. If all steps fail, contact us.

## NOTES

- Before turning mower power on, always check the mower is inside its working area.
- If for any reason—i.e. a party, children playing...—you want to park your mower in the charging station: press HOME then press OK. Mower will go to its base and stay there. Please note the mower will now wait until the next scheduled mowing session. If you want to re-start it at any time, press START then press OK to start your mower.
- 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 station: when the mower runs out of charge, take it manually to the charging station.
- If Mower runs abnormally occasionally, please reset it by turning it off for 30 seconds, then restart it. If the problem cannot be solved, please contact our Customer Service : [Service@proudeerobot.com](mailto:Service@proudeerobot.com) for help.

## TROUBLE SHOOTING

If the mower is not working properly, follow the troubleshooting guidelines below. If the fault still exists, please contact our Customer Service department.

SYMPTOM	CAUSE	SOLUTION
The LED light of the RTK base station is not on	No power	It is necessary to check whether RTK is powered on.
The LED light of the RTK base station is flashing	Need better installation position	Check if there is any obstruction above the installed base station.
The LED light on the charging station does not turn on.	There is no power.	Check the charging station is connected properly to the charger and the charger is connected to a suitable power supply.
Mower turns on, but the blade disc does not spin.	Mower is searching for the charging station.	This is normal: When mower needs to recharge, the blade disc does not rotate while it is searching for the charging station automatically.
Mower vibrates	Blades may be damaged.	Check the blades and replace them if damaged.
	The cutter disc is unbalanced.	Remove debris and foreign objects from the blades and cutter disc.
Grass is being cut unevenly.	Mower needs enough time to complete all mowing tasks.	Allow the mower to run 2 complete cuts to cover the whole lawn area through change direction. Or change the reduce the "Cutting overlap ratio" via App.
	The lawn area is too large.	Each model has its upper limit of coverage, and it takes more time to achieve full coverage beyond this limit.
Grass is being cut unevenly.	The blades are dull and not sharp.	Replace all the blades and screws.
	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 or cutter disc.	Ensure that the blade and cutter disc can spin easily by removing any grass or other objects that might prevent it spinning.

The mower does not charge.	There is no power, or the charging strips on the mower have not touched the contact strips on the charging station.	Check the power cord is connected properly to the charger and the charger is connected to a suitable power supply. Make sure both the charging strips on the mower touch the center of the contact strips on the charging station.
Mower is starting to have shorter run-times between charges.	The grass is too high and too thick.	This is normal. When cutting thick and high grass, more power will be consumed.
	Something is clogging in the cutter disc, creating friction and increasing power consumption.	Check whether the blade is blocked. If so, remove the obstacles.
	The battery may be exhausted or old.	Replace the battery according to the service life recommended in the manual.
Mower is not operating at the correct time.	The system clock of the mower does not match the local time.	Adjust the system clock of the mower to local time.
	Programmed cutting times for the mower are not correct.	Change the time settings for the mower to start and stop.
Mower cannot correctly dock with the charging station.	Environmental influences	Restart the mower.
	Poor connection caused by debris on the charging strip.	Clean the contact pins located on the charging station and the charging strip on the mower using a soft cloth.
The green light on the charging station turns on before charging is complete.	The charging station is overheating.	Place the charging station in a shady area or wait until the temperature has cooled down.
Mower wheels skid or repeatedly slip.	Foreign obstacles, such as twigs and branches may be lodged under the mower.	Remove foreign objects from the bottom of the mower.
	The lawn is too wet.	Wait until the lawn has dried.

Mower slips out of its working area going down a hill.	Low grip of mower drive wheels.	Please check the wheels are clean and free of mud to have the maximum grip possible.
Mower operative system crashes when charging or on standby.	Software or display fault.	Restart the mower.
The mower stops working on the lawn.	It is stuck by obstacles.	Remove obstacles within the working area.
	The grass is too high, or the cutting height is set too low, clogging the blade disc.	Raise the cutting height and then gradually lower.
The mower cannot be connected to the Internet.	Please check that your router has the correct settings.	If your router has two settings, enable the 2.4GHz and 5G band. If you have changed the Wi-Fi network, connect the mower to the new network.



## ENVIRONMENTAL PROTECTION

Only for EC countries: According to the European law 2012/19/EU, electrical and electronic equipment that are no longer usable, and according to the European law 2006/66/ EC, defective or used battery packs/batteries, must be collected separately and disposed of in an environmentally correct manner.

## ROBOTIC MOWER LIMITED WARRANTY

Please read the following information and statement carefully before contacting us about warranty repairment or replacement.

### WARRANTY PERIOD

**Robotic mower products** have 3 years limited warranty period, except for accessories and consumables, starting from the date of purchase.

Batteries built-in Robotic mower & Chargers have 1-year limited warranty period, starting from the date of purchase.

Additional-Function Modules on robotic mowers, have 1-year limited warranty period, starting from the date of purchase.

Accessories for routine maintenance parts, have no limited warranty period. Accessories, for example, include but are not limited to blades, wheels, pegs, and other accessories.

The warranty does not cover breakdowns due to normal wear and tear.

The manufacturer agrees to replace parts identified as defective by the designated distributor.

The manufacturer does not accept responsibility for the replacement of the machine, in whole or in part, and/or ensuing damage.

All repairment and replacement tools will be covered by the limited warranty for the balance of the warranty period from the date of the original purchase.

The details warranty periods by products can be found :

**Toll-Free: +1-833-722-2955**

**Service@proudeerobot.com,**

**<https://www.proudeerobot.com>**

## WARRANTY CLAIMS

When you purchase products from stores, make sure that your machine is complete with all accessories supplied, and clean. If this is not the case, the repairer will refuse the machine. Go to the store with the complete machine and with the receipt or invoice.

For warranty claims, please contact the retail stores where you purchased, nearby dealers, or brand after-sales service centers. To file a warranty claim, you will need to submit original proof of purchase in the form of a valid receipt that displays date and place of purchase. To expedite your request when writing E-mailing or calling the helpline, please have the details of the mower products model number and serial number available.

### LIMITED WARRANTY SERVICE TERMS

The products are warrantied to be free from defects in material and workmanship, from the date of original purchase, subject to the disclaimers and limitations stated bellow.

- a. This warranty applies only to the original purchaser and may not be transferred.
- b. This warranty is void if the product has been used for rental/commercial purpose . Product warranty only covers defects arising under normal usage and does not apply to the following cases:
- Malfunction of the mower resulting from the natural wear and tear of the product, its components, machines, mechanical components, or accessories, including but not limited to: Blades, Transmission Belts and Straps, Filters, Carbon Brushes, Outer Spools, Bump Knobs, Cutting Lines, Saw Chains, Guide Bars, Fixing Devices and Supports.
  - Normal deterioration of the exterior finish, including but not limited to scratches, dents, paint chips, or to any corrosion or discoloring by heat, abrasives, or chemical cleaners.
  - Any malfunction, failure or defect resulting from violation of the rules of operation, misuse, abuse (including but not limited to overloading of the product beyond designed capacity and immersion in water or other liquid), accidents, neglected, altered, modification or lack of proper installation, and improper maintenance or storage of the equipment as specified in the user manual.
  - Using the mower for a purpose other than that for which it was designed, or the use and maintenance of the machine done in a manner not described in the user manual.
  - Damage caused due to the non-conformity to the designed parameters as indicated on the mower and/or the user manual.
  - Damage caused by cleaning tools or maintaining with chemically aggressive liquids.
  - Repairs made with spare parts, replacement parts or components that are not provided by Proudeer Robot, as well as for damage resulting from the use of non-original spare parts, or unauthorized repair.
  - Defects and their consequences linked to the external causes.
  - Products whose original authentication marking (brand, serial number) has been degraded, altered or withdrawn.

### **Maintain case**

The warranty does not cover your daily maintain tasks for example, include but are not limited to:

- Periodic and standard maintenance events.
- Replacement of consumables parts.
- Accessories breakdowns.
- Loss of components and loss due to insufficient screwing.

This warranty gives you specific legal rights, and you may also have other rights which vary from country to country.

### **DECLARATION OF CONFORMITY**

Description: Battery-powered robotic mower

Type:

Function: Mowing grass

Serial number:

Applicable EC Directives:

Machinery Directive 2006/42/EC

Additional used EC Directives:

RED Directive (2014/53/EU)

EN 300 328 V2.2.2

EN 301 893 V2.1.1

EN 300 440 V2.2.1

EN 303 413 V1.2.1

EN 300 220-1 V3.1.1

EN 300 220-2 V3.2.1

EN 301 511 V12.5.1

EN 301 908-1 V15.2.1

EN 301 908-13 V13.2.1

EN 62479: 2010

EN IEC 62311: 2020

EN 301 489-1 V2.2.3

EN 301 489-3 V2.3.2

EN 301 489-17 V3.2.4

EN 301 489-19 V2.2.1

EN 301 489-52 V1.2.1

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

## FCC Regulatory Compliance:

This device complies with Part 15 of the FCC Rules. Operation 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.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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.

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### RF Exposure Compliance:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Name and address of the person authorised to compile the technical file:

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