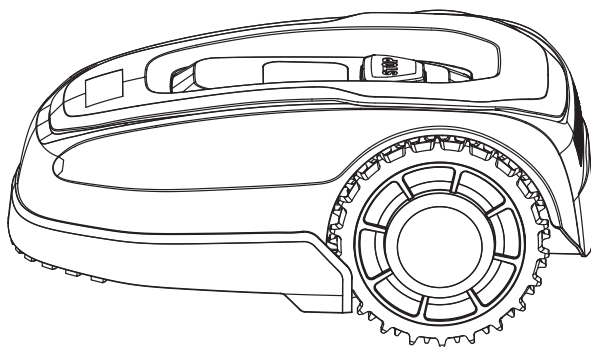


Robotic mower

CRM16G1

Owner's Manual

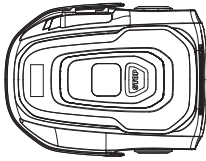


EN ORIGINAL INSTRUCTIONS

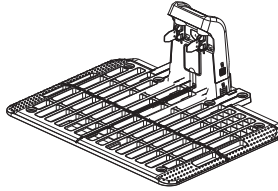
IMPORTANT - These instructions are for your safety.

Please read through them thoroughly prior to handling the product and retain them for future reference.

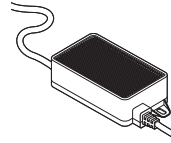
EN Parts



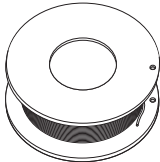
01. x1



02. x1



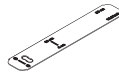
03. x1



04. x1
(130m)



05. x7



06. x2



07. x1



08. x180



09. x4



10. x4

EN You will need

x1



(items not supplied)

Suitable personal protective equipment

Suitable screwdriver

Hammer

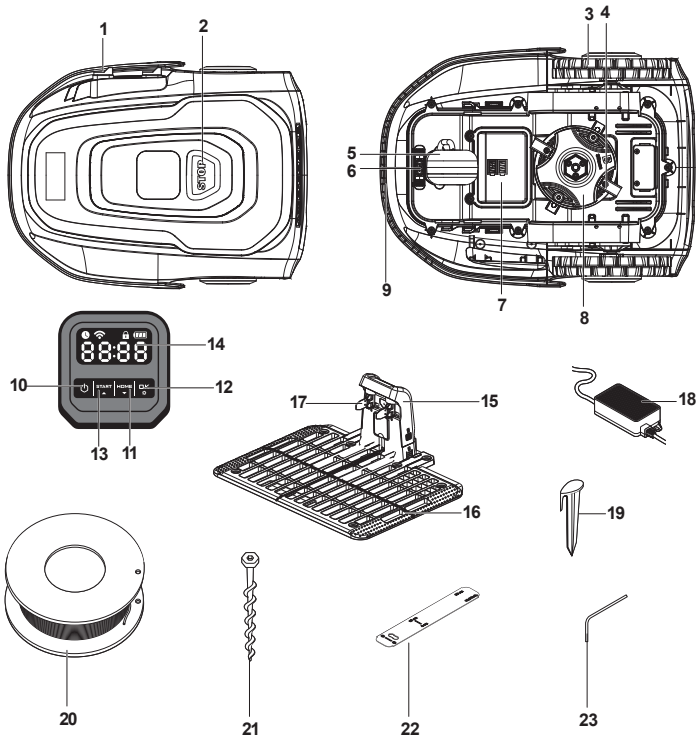
Tape

Scissors

EN You will need

EN	
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EN Product description




- | | |
|-----------------------|----------------------------------|
| 1. Charging strips | 13. Start key |
| 2. Stop button | 14. Display |
| 3. Rear driving wheel | 15. Charging pile |
| 4. Cutting blade | 16. Charging base |
| 5. Front wheel | 17. Contact pins |
| 6. USB port | 18. Power adapter |
| 7. Battery pack | 19. Wire pegs |
| 8. Blade turning disc | 20. Boundary wire |
| 9. Handle | 21. Charging base fixing nails |
| 10. On/off key | 22. Boundary wire distance gauge |
| 11. Home button | 23. Hex key |
| 12. Confirm button | |

Users can view the electronic instructions at <https://Cocraft.com>.

Product Safety

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.
- This appliance contains batteries that are only replaceable by skilled persons.

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

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 the 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.

MAINTENANCE AND STORAGE

 **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 from 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 inside the tool

a) Do not dismantle, open or shred 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) Recharge only with the charger specified by Robotic Mower. Do not use any charger other than that specifically provided for use with the equipment.**
- h) Do not use any battery pack which is not designed for use with the equipment.**
- i) Keep battery pack out of the reach of children.**
- j) Retain the original product literature for future reference.**
- k) Dispose of properly.**
- l) Do not mix cells of different manufacture, capacity, size or type within a device.**
- m) Keep the battery away from microwaves and high pressure.**
- n) 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.

General Safety Warnings for battery charger

⚠ 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.

Save all warnings and instructions for future reference.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.




Additional safety instructions for your Battery Charger

1. Before charging, read the instructions.
2. Do not charge a leaking battery.
3. Do not use chargers for works other than those for which they are designed.
4. Before charging, ensure your charger is matching the local AC supply.
5. The charging device must be protected from moisture.
6. Do not use the charging device in the open.
7. Do not short out the contacts of battery or charger.

8. Respect the polarity “+/-“ when charging.
9. Do not open the unit and keep out of the reach of children.
10. Do not charge the batteries of other manufactures or ill-suited models.
11. Ensure that the connection between the battery charger and battery is correctly positioned and is not obstructed by foreign bodies.
12. Keep battery charger’s slots are free of foreign objects and protect against dirt and humidity. Store in a dry and frost-free place.
13. When charging batteries, ensure that the battery charger is in a well-ventilated area and away from inflammable materials. Batteries can get hot during charging. Do not overcharge any batteries. Ensure that batteries and chargers are not left unsupervised during charging.
14. Do not recharge non-rechargeable batteries, as they can overheat and break.
15. Longer life and better performance can be obtained if the battery pack is charged when the air temperature is between 18°C and 24°C. Do not charge the battery pack in air temperatures below 5°C, or above 40°C. This is important as it can prevent serious damage to the battery pack.
16. Charge only battery pack of the same model provided by manufacturer and of models recommended by manufacturer.

Symbols

On the product, the rating label and within these instructions you will find among others the following symbols and abbreviations. Familiarise yourself with them to reduce hazards like personal injuries and damage to property.

V 	Volt, (direct current voltage)	mAh	Milliampere per hour
/min or min ⁻¹	Per minute	°C	Degree Celsius
g	Gram	kg	Kilogram
mm	Millimetre	m	Metre
cm	Centimeter	m/s ²	Metres per second squared
dB(A)	Decibel (A-rated)		
	Lock / to tighten or secure.		Unlock / to loosen.



WARNING – Read user instruction manual before operating the machine.



Note / Remark.

xxWyy Manufacturing date code; year of manufacturing (20xx) and week of manufacturing (Wyy)



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.



This product is of protection class III.



Do not wash the machine with a high pressure washer



Read operator's manual



Detachable supply unit



Guaranteed sound power level value in 65 dB.



Double insulation



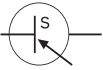
Fuse



Positive terminal



Negative terminal



SMPS (Switch mode power supply unit)



SMPS incorporating a short-circuit-proof safety isolating transformer (inherently or non-inherently)



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



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.




The product complies with the applicable European directives and an evaluation method of conformity for these directives was done.



UK Conformity Assessed.

Technical specifications

General

>Rated voltage	18V 
>No load speed	3150/min
>Cutting area	300m ²
>Cutting diameter	16cm
>Cutting height	35mm / 50mm
>Cutting height positions	2
>Max. slope	25% (15°)
>Protection degree	III
>Frequency band of inductive loop systems	77 Hz
>Max. radio-frequency power of inductive loop systems	82 dBμA/m
>Machine weight	5.9kg

Battery pack


>Model no.	LA0001
>Type	Lithium-ion
>Capacity	2.0Ah
>Voltage	18V 

Charger

>Model no.	LA8001
>Rated input	100-240V~50/60Hz, 38W
>Rated output	20V  , 1.5A
>Sound values	

Sound values

>Sound pressure level L_{pA}	$L_{pA} = 54 \text{ dB (A)}$
>Uncertainty K_{pA}	$K_{pA} = 1.01 \text{ dB(A)}$
>Measured sound power level L_{wA}	$L_{wA} = 62 \text{ dB (A)}$
>Uncertainty K_{wA}	$K_{wA} = 1.01 \text{ dB(A)}$

80dB(A) 

Wear ear protection when sound pressure is over

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.

EN Preparation

Unpacking



NOTE: The product is heavy, ask another person for assistance if required.

1. Unpack all parts and lay them on a flat, stable surface.
2. Remove all packing materials and shipping devices if applicable.
3. Make sure the delivery contents are complete and free of any damage. If you find that parts are missing or show damage do not use the product but contact your dealer. Using an incomplete or damaged product represents a hazard to people and property.
4. Ensure that you have all the accessories and machines needed for assembly and operation. This also includes suitable personal protective equipment.



WARNING: The product and the packaging are not children's toys! Children must not play with plastic bags, sheets and small parts! There is a danger of choking and suffocation!

You will need

(items not supplied)

Suitable personal protective equipment
Suitable screwdriver
Hammer
Tape
Scissors

(items supplied)

Hex key



NOTE: The accessories required depend on the intended application. Ask your dealer for advice.

EN Boundary Wire Installation

How to install your Robotic Mower

The installation of your Robotic Mower is easy. The entire process only takes a little time, depending on the size of your garden. If you are like us, you hate wasting time to mow your lawn. Your Robotic Mower will prove to be a great investment, providing you with years of lawn care.

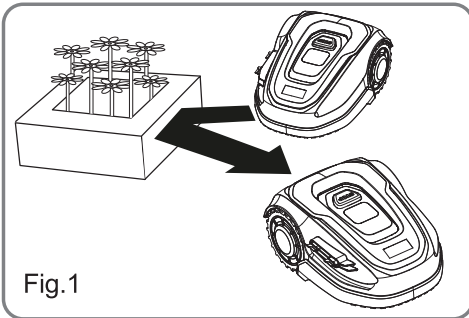
Your Robotic Mower is designed to mow regularly, maintaining a healthy and better looking lawn than before. Depending on the size of your lawn, your Robotic Mower may be programmed to operate at any time or frequency with no restrictions. It is here to work for you.

Preparation

Before starting the installation process, read through this entire Installation Guide carefully. Sketch the working area, including all obstacles, to make it easier to see the ideal positions for the charging station and where the boundary wires should be routed.

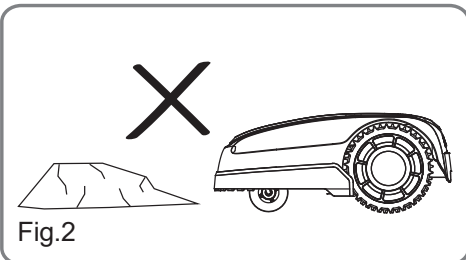
Robotic Mower's new home: your garden

Let's start by having a closer look at Robotic Mower's new home - your lawn - highlighting the areas where it can safely go and areas Robotic Mower should avoid.



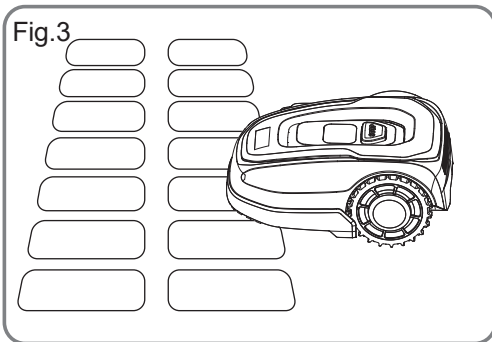
Obstacles

When hitting any obstacle that's rigid, stable and taller than 10cm - such as a wall or a fence - Robotic Mower will stop and re-direct away from the obstacle. (Fig.1)



Stones

Stones too heavy to be moved by your Robotic Mower can be safely hit. However, if a stone has an inclined surface that your Robotic Mower can climb, it should be removed or excluded from the working area. (Fig.2)

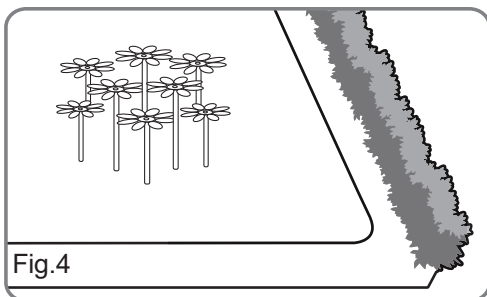


Driveways

If your driveway is level with your lawn, without any protruding surface, Robotic Mower can freely run over it. If you'd like Robotic Mower to avoid it, place the boundary wire 10cm* away from it.

If it's covered with gravel, you should not allow Robotic Mower to travel over it. Using the distance gauge for spacing, keep a 26cm* space between the boundary wire and the driveway.

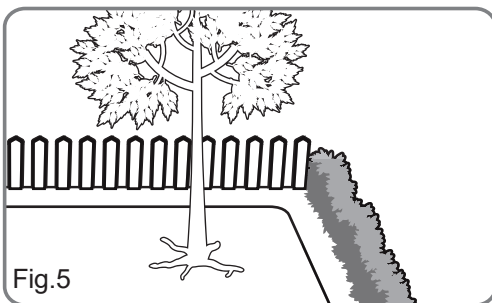
* This is the recommended distance. The provided distance gauge ensures proper installation. (Fig.3)



Flowerbeds, ponds, pools...

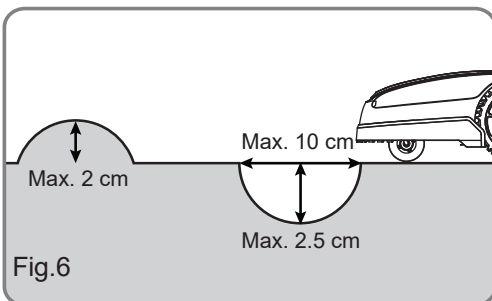
You certainly don't want Robotic Mower to mow your flowers, or fall into the water. These areas should be avoided.

Additionally, obstacles between 2cm-10cm high should also be excluded from Robotic Mower's operation area. (Fig.4)



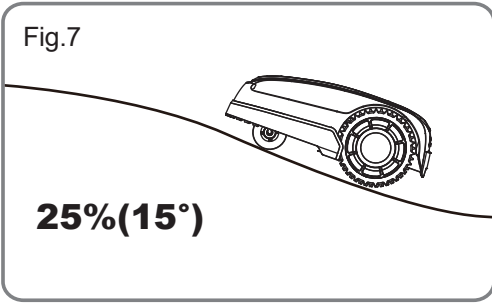
Trees

Roots emerging from the ground should be avoided to prevent damage. (Fig.5)



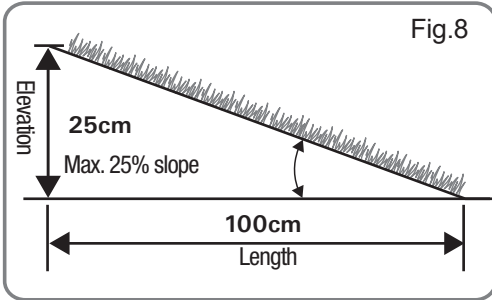
Depressions and bumps

In case of large bumps (higher than 2cm) or dips (wider than 10cm and deeper than 2.5cm), please determine if the blades would touch the ground or if Robotic Mower would get stuck. If this is the case, either make the inclines smoother or exclude these areas from Robotic Mower's operation. (Fig.6)



Slopes

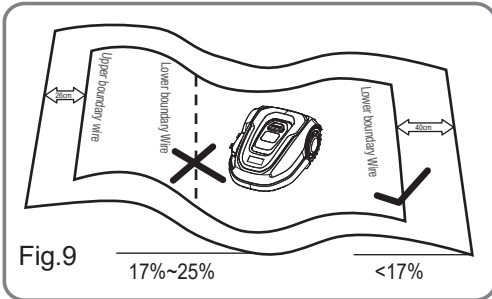
Your Robotic Mower has the ability to safely climb slopes up to 25% (15°)*, so please avoid areas steeper than this. (Fig.7)



*How to calculate the slope of your lawn (Fig.8):

The slope would be:

$$\frac{25\text{cm (Elevation)}}{100\text{cm (Length)}} = 25\% \text{ (slope)}$$

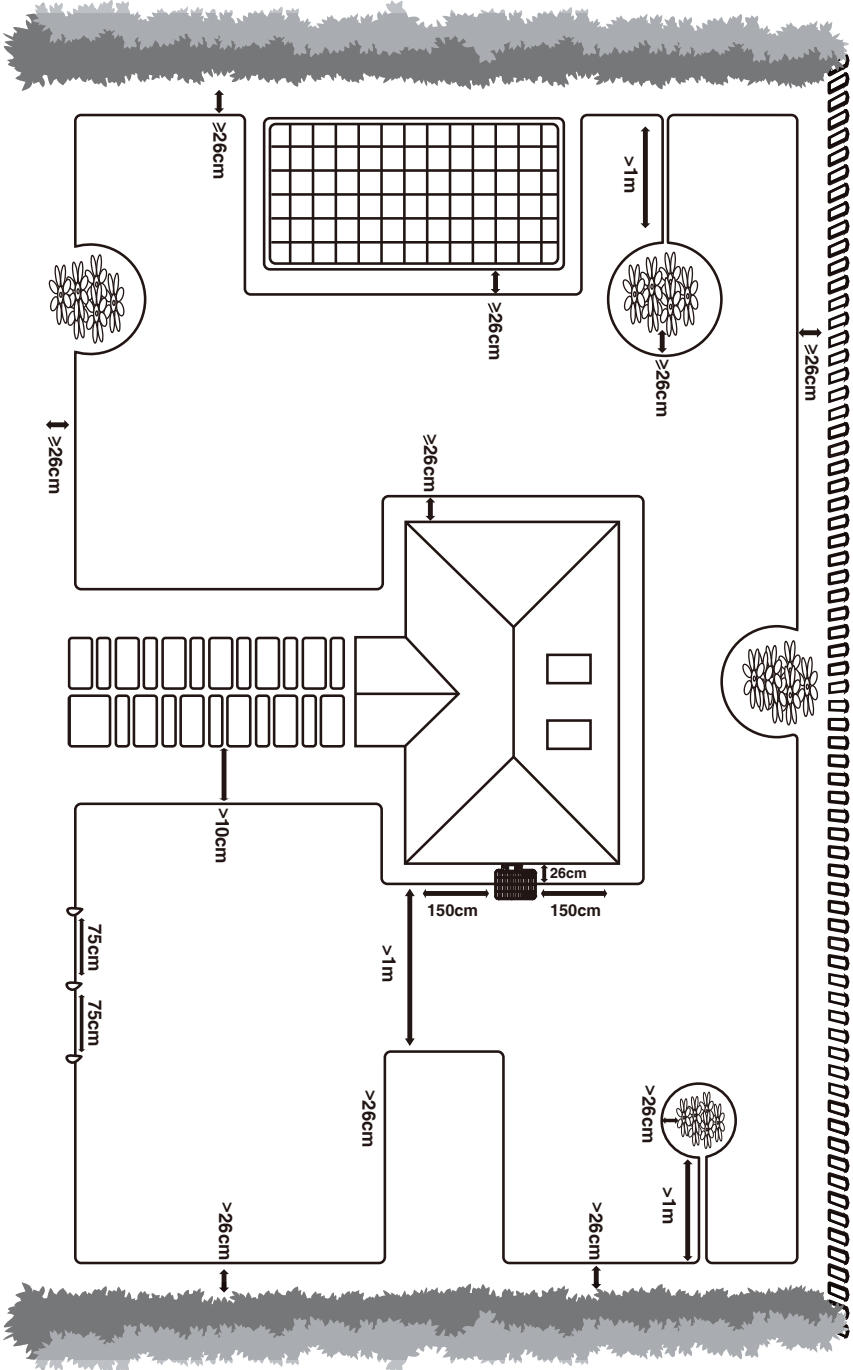


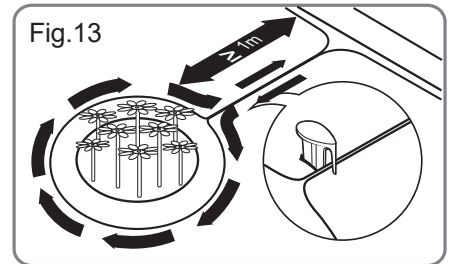
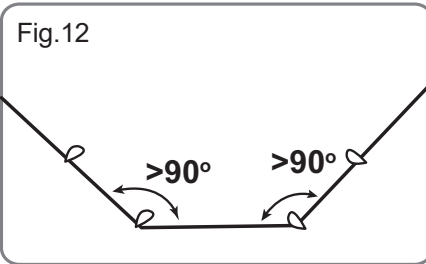
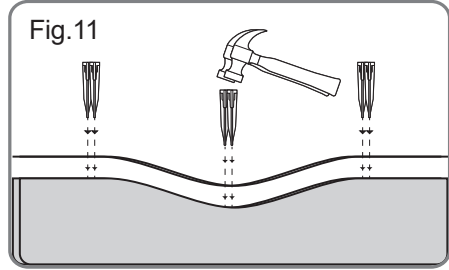
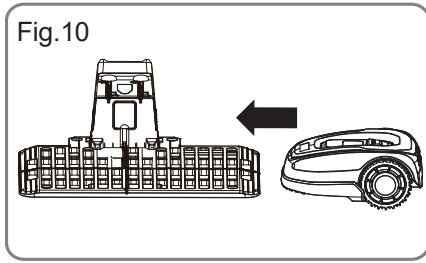
Placement of boundary wire on slopes

The upper boundary wire should NOT be placed on slopes steeper than 25% (15°), and it should be placed at a distance of 26cm from any obstacle. The lower boundary wire should NOT be placed on slopes steeper than 17% (10°), and it should be placed at least 40cm away from any obstacle when positioned on a slope that is 17%.

NOTE: The lower boundary wire cannot be laid across a slope steeper than 17% as Robotic Mower will slip and cross outside the wire, especially when the grass is wet. (Fig.9)

Overview



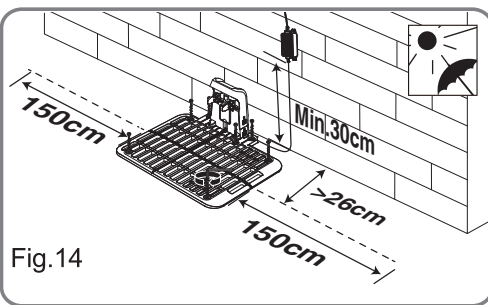


Your Robotic Mower needs to know where to mow. Using the boundary wire, you'll define Robotic Mower's working area and form an invisible fence. This wire will also guide Robotic Mower to its charging station.

“Please note: Under certain conditions, additional magnetical fields generated by reinforcement steel (Rebar), which is often found in underground constructions like a parking garage or an underground hangar, can lead to navigational disturbances of robotics lawn mowers.”

If your neighbor also uses a Robotic Mower, you must keep a space of at least 1 metre between your boundary wire and your neighbor's.

Installation



1. Place the charging station

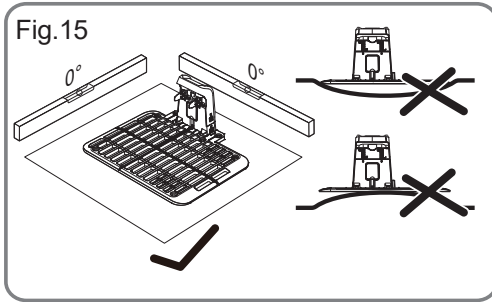
Find a flat surface for the charging station, the place should be dry and away from direct sun light. And the adapter can be mounted on the wall.

Robotic Mower's charging station can be placed against the wall or fence, with the charging components facing your lawn. If possible, place the charging station in the shade, and it is better to charge the battery in a cool place. When laying the boundary wire, leave at least 150cm of straight wire with no obstacles on each side of the charging station. Make sure the adapter and electrical outlet are

always kept in a dry place.

Insert charging pile into charging base. Fix the charging station to the ground by tightening the supplied base fixing nails with the supplied hex key. (Fig.14)

NOTE: Boundary wire on each side of the charging station should be straight for 150cm without corners or obstacles to ensure proper docking.



The charging station must be positioned on relatively level ground. It must not be positioned on an inclined surface or anywhere that makes its plate bend. (Fig.15)

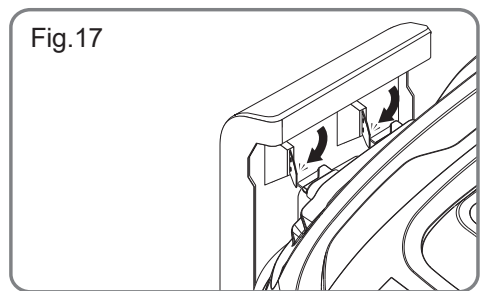
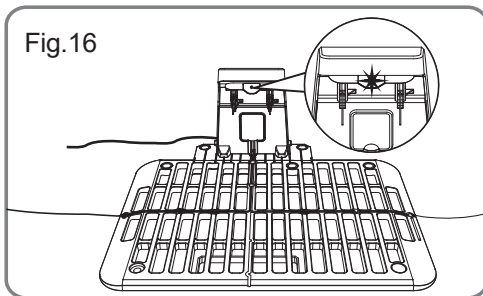
2. Charge your Robotic Mower before the first operation

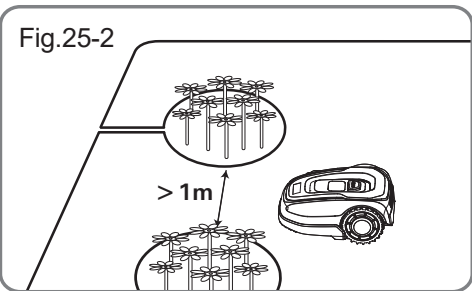
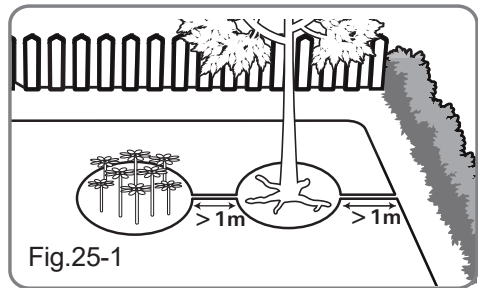
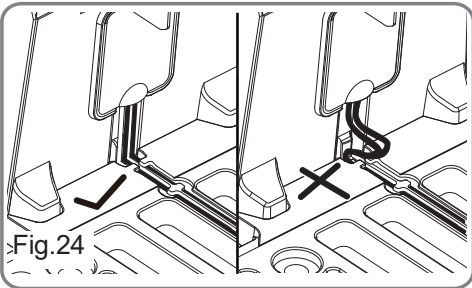
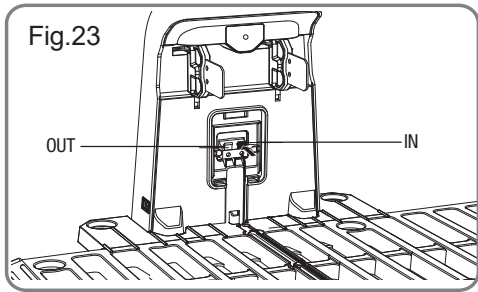
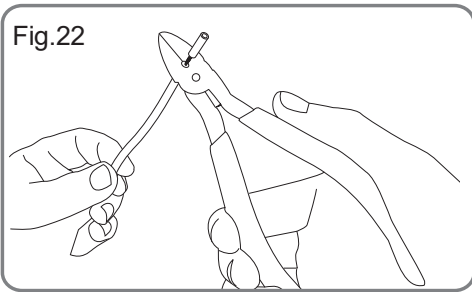
Connect the power cord of the charging station to the adapter, please refer to “Charging Procedure” chapter.

Connect the adapter to the electrical outlet. The LED on the charging station will turn on in green color. Manually dock Robotic Mower into the charging station while Robotic Mower is powered off. The green light on the charging station will be flashing and Robotic Mower will begin to charge. (Fig.16, 17)

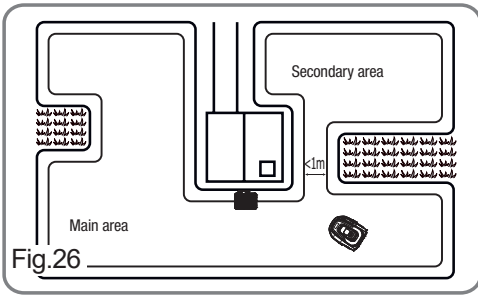
If the power cord is in Robotic Mower’s working area, you may bury it if desired.

NOTE: If you want to plug the adapter in an indoor electrical outlet, you need to route the power cord through the hole in the wall.

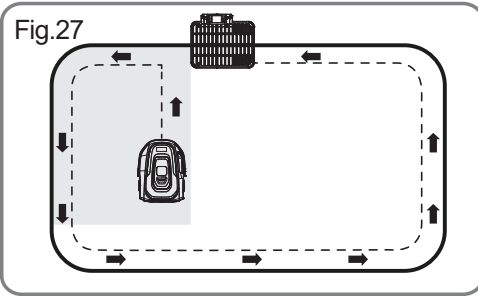




In the case of two islands that are close to each other, it would be convenient to lay out the wire as illustrated in the picture. Robotic Mower can travel freely over the boundary wire between the areas and the mowing boundary. (Fig.25)



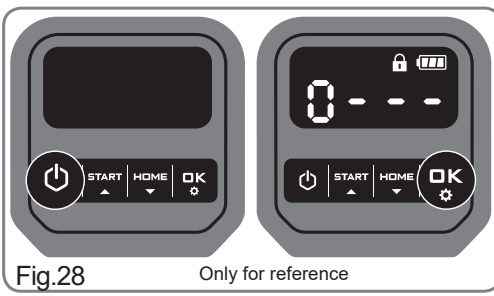
If your lawn has multiple areas connected to each other by a corridor, it should be at least 1 meter wide. If the corridor is narrower than 1 meter, Robotic Mower will have difficulty travelling between. In this case, it is recommended to set up a main area and a secondary area in your lawn. The boundary wire should be placed as illustrated in the picture. When the secondary area has to be cut, please pick up Robotic Mower and bring it to the secondary area. Robotic Mower will mow without problem, but you have to bring it back to the charging station when the battery runs out. (Fig. 26)



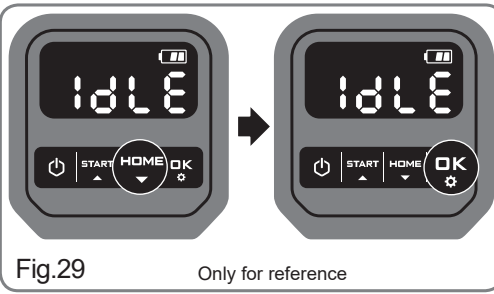
Verification

Before it starts mowing for the first time, make sure Robotic Mower's working area is clear of objects such as toys and branches.



1. Please refer to the chapter "How efficiently will my Robotic Mower mow the grass?" to set the cutting height to the maximum level 50 mm.
2. Place your Robotic Mower a few meters in front of the charging station. (Fig. 27)
3. Press until Robotic Mower turns on. For the first use, input the default PIN code 0000 by pressing for four times when the number 0 is blinking. (Fig. 28)



NOTE: When Robotic Mower turns on, all lights on the display will be illuminated and then turn off. Check if there is any light damaged. It is recommended to shield the display with your hand when the outdoor light gets too strong.





NOTE: Robotic Mower will turn off if it does not receive any input within 30 seconds after it is turned on. If you enter wrong PIN code three times, Robotic Mower will raise the alarm "di-di" and then turn off.

4. Press  then  to send Robotic Mower back to the charging base. Robotic Mower will follow the boundary wire to the charging station. (Fig. 29)

5. Fine tune the outline shape of the boundary wire if necessary.

NOTE: If the boundary wire is broken during the testing or you need to extend the boundary wire, please refer to “**Joining the Boundary Wire**” chapter.

Check the status of the LED light indicator on the charging station to make sure the connection is OK.


If the verification test is completed smoothly, you can start mowing by pressing  then .

If there is any problem during verification test, please refer to “**Troubleshooting**” chapter.

EN Charging

Charging procedure

How to use your charger

1. Plug charger directly into an electrical outlet. **DO NOT ABUSE THE CORD.** Never carry charger by cord. Do not disconnect the charger from the outlet by pulling it by the cord.
2.  **CAUTION:** To reduce the risk of fire, electrical shock, or personal injury do not attempt to use this charger with any other product.
Likewise, do not attempt to charge the mower with any other charger.
3. Do not operate a damaged charger. Replace damaged cords or charger immediately at an authorized Robotic Mower service depot.
4. Do not charge in wet locations. Do not charge mower when temperature is above 104°F (40°C) or below 41°F (5°C).
5. Keep the mower and charger away from water, heat sources, (such as radiators, heaters, stoves...etc.) flames, or chemicals. Be careful not to damage the charger cord, by keeping cord away from sharp edges.

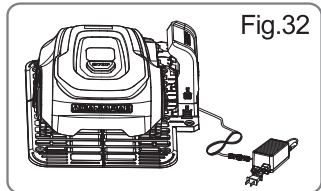
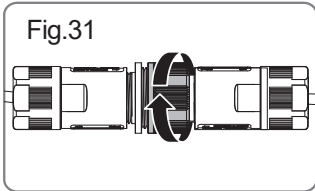
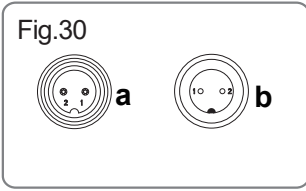
Connecting the charging station (See Fig. 30, 31)

1. When connecting the charging base’s power cord to the adapter, align the notch on the power cord (b) with the groove on the adapter (a).
2. Connect the charger’s power cord to a wall socket. It is preferable to use an earth-fault breaker as recommended.

Charging a discharged battery (See Fig. 32)

When Robotic Mower is new or has been stored for a long period, the battery will not be charged and needs to be charged before starting.

1. Place Robotic Mower in the working area.
2. Press on/off button to start. Press HOME then OK to send Robotic Mower back to the charging base.
3. The charging base green light will be flashing, Robotic Mower will begin to charge.



EN Functions & Settings

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

Control panel

Working time

START
Starts mowing/
Selects up

**POWER ON/
OFF**
Turns Robotic Mower
on and off

DISABLING DEVICE
Prevents operation of
Robotic Mower

HOME
Sends Robotic Mower
to its charging base
during operation with
the blades rotating to
cut grass on the way
home and activates
charging/Selects
down

Lock

Battery capacity

Display
Displays the state
of your setting

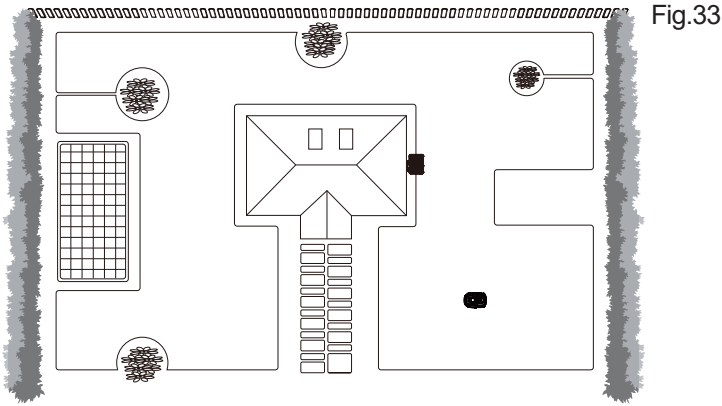
OK
Confirms any
setting

STOP
Stops Robotic
Mower during
operation

Standby page:
Robotic Mower is not in the
working hours.

Understanding Your Robotic Mower

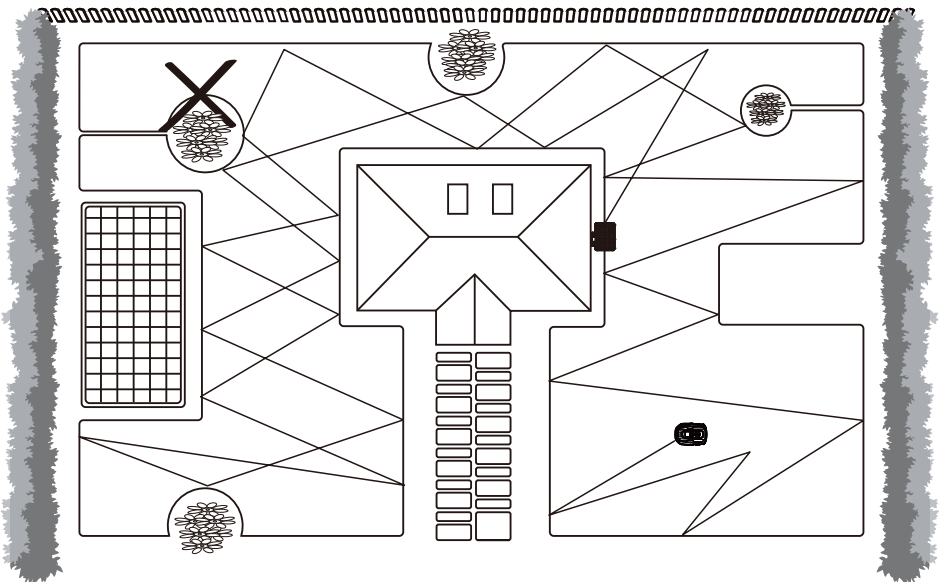
Congratulations on your new purchase of Robotic Mower and welcome to the care-free life of automatic mowing. In the following, we want to help you to better understand how your Robotic Mower thinks.









How does my Robotic Mower know what to mow?

Robotic Mower chooses its direction at random. It will make sure your entire lawn is evenly mowed without leaving unattractive mowing paths. (Fig. 34)

Fig.34



Start

- 1) After the boundary wire installation, you can start using Robotic Mower.
- 2) Press  until Robotic Mower turns on. For the first use, input the default PIN code 0000 by pressing  for four times when the number 0 is blinking. (The PIN code can be changed, please refer to “Setting” chapter).
NOTE: Robotic Mower will turn off if it does not receive any input within 30 seconds after it is turned on. If you enter wrong PIN code three times, Robotic Mower will raise the alarm “di-di” and then turn off.
- 3) Press , then press  to start mowing.
- 4) Press  then  to make Robotic Mower go to the charging station, with the blades rotating to cut grass on the way home.

Robotic Mower will work continuously until reaching low battery power level and then it will return to the charging station. Once charging is complete, Robotic Mower will automatically resume mowing or it stay in the charging station according to the mowing schedule.

NOTE: When Robotic Mower turns on, all lights on the display will be illuminated and then turn off. Check if there is any light damaged. It is recommended to shield the display with your hand when the outdoor light gets too strong.

How does my Robotic Mower know where to go?

Your Robotic Mower is made to work on its own. Robotic Mower knows when it needs to go to its charging station to charge, can stop itself if it senses a problem, and knows to stop, draw back, and turn around when it bumps into something blocking its path. Robotic Mower will also automatically stop its blade turning disc from rotating if it is lifted off the ground to prevent an accident.

A. Finding the Charging station

When your Robotic Mower needs to recharge, it will stop mowing and follow the boundary wire in an anti-clockwise direction back to its charging station.

B. Sensing the boundary wire

Robotic Mower always obeys the border set by the boundary wire and uses sensors at its front to detect it. (Fig. 35)

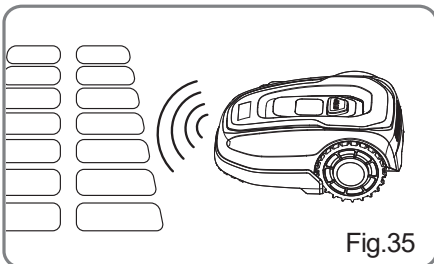


Fig.35

C. Starting and stopping while mowing (Fig. 36, 37, 38)

To start mowing, press the on/off key and input the PIN code. Press **START**, then press **OK**. If you would like Robotic Mower to stop mowing, simply press the STOP button on top of the mower.

If Robotic Mower senses something is wrong, it will display a fault message on the display. For information on these messages, refer to "Error Messages". Robotic Mower will turn off if it does not receive any input from the user within 20 minutes.

To resume:

- Press **START**, then press **OK**
- Now Robotic Mower will begin to mow!

Fig.36

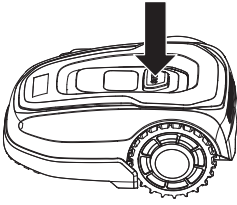


Fig.37




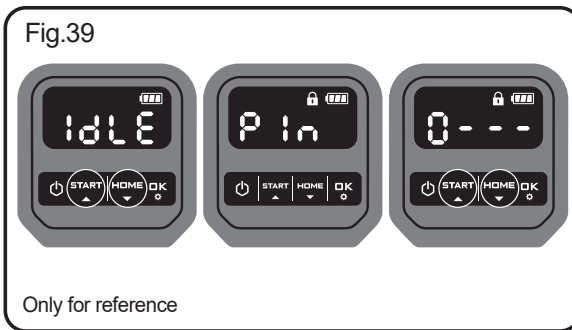
Fig.38



Setting


(1) Change PIN code (Fig. 39)

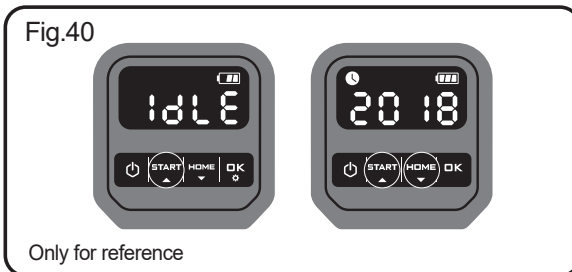
To change the PIN code, keep pressing both **START** and **HOME** buttons at the same time for 5 seconds. The icon  will be blinking, and "Old Pin" will be rolling flashing. After that, the first number will be blinking, use **START** or **HOME** to input the old PIN code and press **OK** to confirm. The next number will be blinking. Use the same method to complete other numbers. Then, "Pin:" will be rolling flashing, the first number will be blinking and use **START** or **HOME** to select the number you want and press **OK** to confirm. The next number will be blinking. Use the same method to complete other numbers. For example, the new PIN code is set to be 0326. After that, "Pin:" will be rolling flashing and the first number will be blinking again. Use the same method to input the new PIN code you set just now (in this example, 0326). Then "Pin:0326" will be rolling flashing on the display. Your PIN code has been changed successfully.




(2) Set year, date and time (Fig. 40)

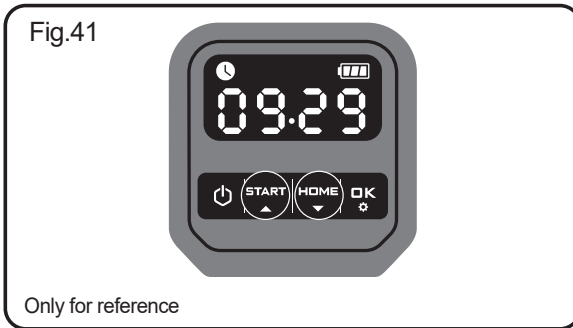
Set year, date and time are compulsory setting items. If you don't set these items, it will influence the schedule time in the following setting. These items should be set in the order of year, date and time.

For the year setting, keep pressing **START** for 3 seconds until the icon  and a number are blinking on the display, for example, 20 18. Use **START** or **HOME** to select the year you want. Then press **OK** to confirm to finish the year setting.

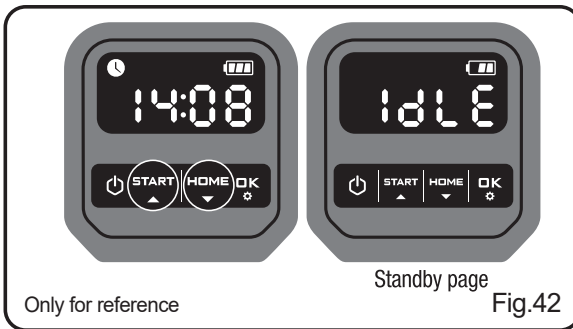


Meanwhile, the icon  will be flashing again and a number will be displayed to indicate the date, for example, 09-29, meaning September 29. When 09 is flashing, use **START** or

HOME to select the number and press **OK** to confirm. Then **29** will be flashing. Use the same method to select the number and press **OK** to confirm to finish the date setting. (Fig. 41)



Meanwhile, the icon will be flashing and the time will be displayed, for example, **14:08**. When **14** is blinking, use **START** or **HOME** to select the number and press **OK** to confirm. Then **08** will be blinking, use the same method to select the number and press **OK** to confirm. Now the time setting is completed and Robotic Mower will enter the standby page. (Fig. 42)



(3) Default working schedule

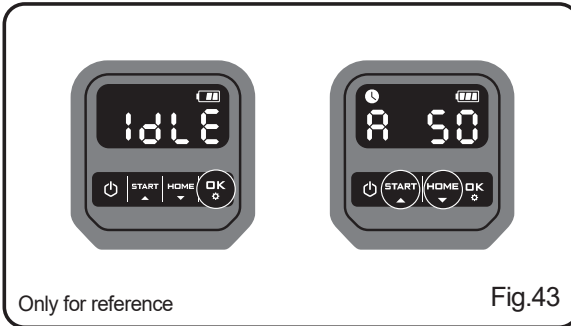
The default working time of Robotic Mower can be found in following table:

SCHEDULE							
AREA (m ²)	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
50	/	/	work	/	/	work	/
100	/	work	/	work	/	work	/
150	/	work	work	work	work	work	/
200	/	work	work	work	work	work	/
300	/	work	work	work	work	work	/
400	/	work	work	work	work	work	/
500	/	work	work	work	work	work	/
600	/	work	work	work	work	work	/
700	/	work	work	work	work	work	/

800	/	work	work	work	work	work	/
900	/	work	work	work	work	work	/
1000	/	work	work	work	work	work	/

(4) Set work area (Fig. 43)

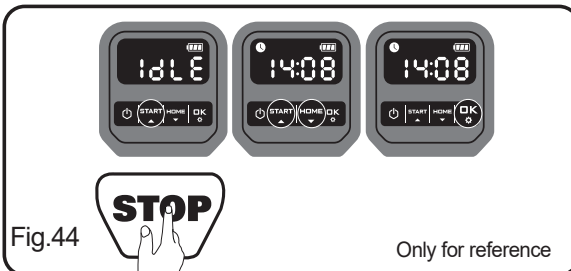
Keep pressing **OK** for 3 seconds. A number will be blinking on the display, for example, **A 50**, which is the lawn area. The working time will be automatically set according to the size of your garden. Use **START** or **HOME** to set the lawn area, and press **OK** to confirm. Then Robotic Mower will enter the standby page.



(5) Change default start time (Fig. 44)

The default start time of your mower is 09:00, it can be changed anytime. First, keep pressing both **START** and **(STOP)** buttons at the same time until the hour time is blinking. Then, press **START** or **HOME** to set the hour time and press **OK** to confirm. Now, the minute time is blinking. Press **START** or **HOME** to set the minute time and press **OK** to confirm. The start time setting is completed.

For example, set the time to 14:08, and your Robotic Mower will start mowing from 14:08.



How efficiently will my Robotic Mower mow the grass?

Mowing times are different for every lawn depending on the factors mentioned below. Gradually adjust the time you allow Robotic Mower to mow each day until you find the most suitable setting.


Your Robotic Mower is capable of mowing areas of different sizes, although this depends on various factors, such as:

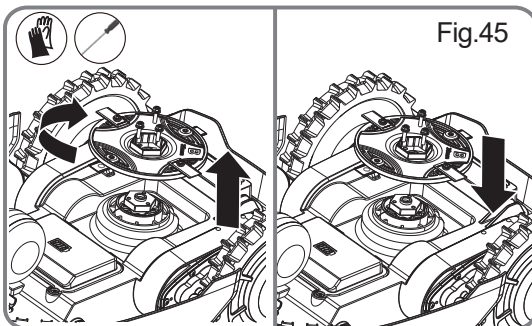
- Species of grass in your lawn and its growth rate
- Sharpness of the cutting blades

- Humidity
- Surrounding temperature
- Amount of obstacles in your Lawn

Unlike most other mowers, Robotic Mower uses a side charging system, which is able to cut the surrounding grass as much as possible. The holes on the bottom of the charging base allow the grass to grow through the base to help disguise it and create an elegant appearance.

The deck of **CRM16G1** is equipped with two layers of blades, totaling four blades. The cutting heights of the two layers of blades are 35mm and 50mm respectively. The primary cutting is performed by the lower layer of blades. Below are the steps for adjusting the cutting height. For your safety, it is recommended to wear gloves during operation. (Fig. 45)

1. Press  to turn off Robotic Mower.
2. Flip Robotic Mower over, and you will be able to see the current cutting height on the blade turning disc.
3. Use a screwdriver to loosen the three screws, then remove the blade turning disc and flip it over. Tighten the three screws with the screwdriver.
4. Once the height adjustment is complete, flip the Robotic Mower back over.



Your Robotic Mower will cut best in dry weather. Check and clean your mower regularly.

Your Robotic Mower is afraid of lightning storms. In case of a lightning storm, protect Robotic Mower by unplugging the charging station, disconnecting the boundary wire, and making sure Robotic Mower is not allowed to charge.

Your Robotic Mower loves mowing grass and requires the cutting blades to be kept in good condition to cut at its best. Robotic Mower can do most things by itself, but will sometimes need your help to prevent damage to itself.

- Never let Robotic Mower travel over gravel.
- Remove or prevent access to obstacles that Robotic Mower could accidentally climb on and damage its blade turning disc.
- Remove all debris and foreign objects from your lawn.

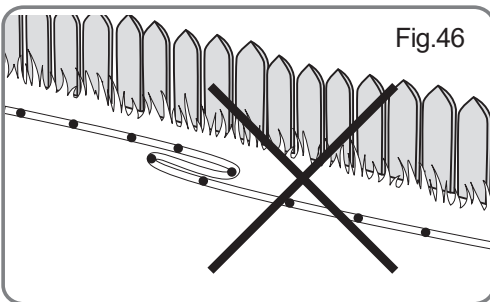
Boundary Wire Basics

Pegging the boundary wire

Use the boundary wire distance gauge to set the correct distance between the wire and the border of your lawn (more than 26cm). This is the recommended distance. The provided distance gauge ensures proper installation.

If your neighbor also uses a Robotic Mower, keep a spacing of at least 1 metre between your boundary wire and your neighbor's.

The boundary wire must outline the intended mowing area exactly. Your Robotic Mower will become confused by extra bends or coils of boundary wire that are not part of its mowing area (Fig. 46). If there is excess boundary wire after the mowing area has been outlined, cut it off and store this additional wire in a separate location. It is important to leave the necessary length where it connects to the charging station so it can be connected and still remain buried.



Burying the boundary wire

If you are planning to bury the boundary wire, it is recommended to first peg it down. This allows you to easily change the layout if necessary before burying the wire. When the boundary wire installation is complete, have Robotic Mower follow and check the path by pressing **HOME** and **OK**. This allows your Robotic Mower to adjust to its new environment.

While observing Robotic Mower you can easily make alterations to the boundary wire to ensure Robotic Mower's trouble-free tracking when locating the charging station. Confirm that Robotic Mower docks in the charging station successfully, and bury the wire if desired.

Joining the boundary wire

If you want to extend and splice the boundary wire, please buy and use a waterproof connector. Insert both wire ends in any two of the three holes of the connector. Insert the wires fully until both wire ends are visible on the other side of the connector. (Fig. 47) Press the connector together by using a pair of pliers. (Fig. 48, 49)

⚠ WARNING: It is not recommended to simply splice the boundary wire with insulating tape or use a screw terminal block for connection. A broken circuit may occur after a period of time as soil moisture can oxidize the wire.

Fig.47

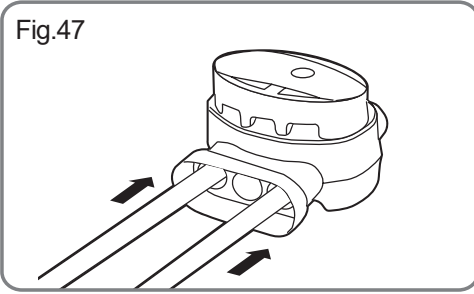


Fig.48

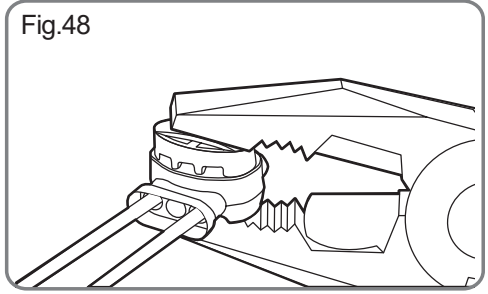
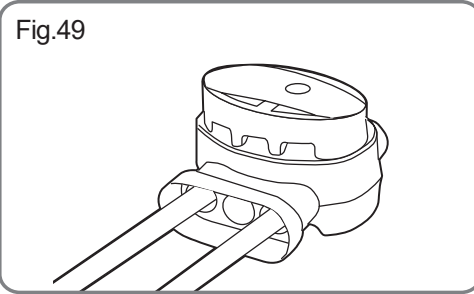


Fig.49




Software update

The software can be updated when new versions become available. **Please contact a service agent for the latest software.**



Update via USB. See below for download and installation instructions:

(1) Save the file to an empty **FAT32** formatted USB (flash drive). Delete any other files on the drive and check the format. If the drive is not formatted in **FAT32**, please reformat the drive.

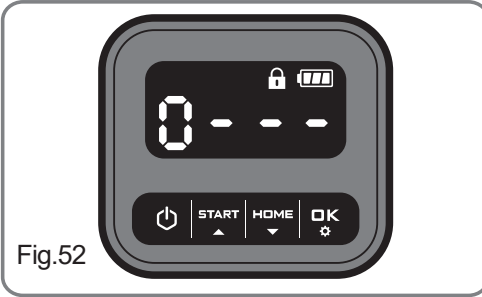
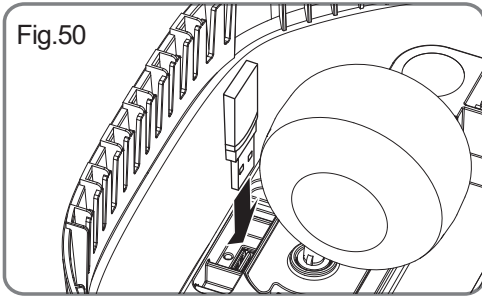
NOTE: The software update is downloaded as a zipped file. You will need to unzip or extract it before proceeding.

(2) Place Robotic Mower on a secure and level surface. Press  to turn off your Robotic Mower.

(3) Insert the USB drive (flash drive) in the port. (Fig. 50)

(4) Turn Robotic Mower on. The update will begin automatically. Wait until the display shows “” (Fig. 51), then remove the USB drive (flash drive) and tightly close the protective cover. When the display shows “ - - -”, the update is complete and Robotic Mower will enter the PIN page. (Fig. 52)

The manual included with your Robotic Mower is based on the default software at the time of production. Some new features/functions in the new version may not exist in the manual. If you found some settings not in the manual, **please contact a service agent for the latest manual.**





Maintenance

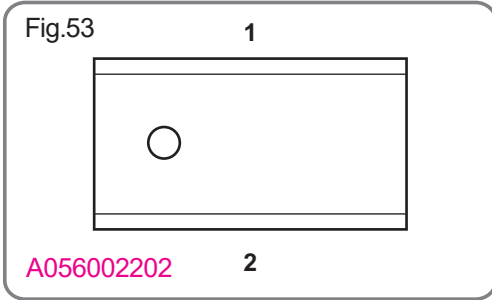
Your Robotic Mower works hard and needs to be cleaned and checked from time to time. Some parts will require replacement as they become worn. Never use your Robotic Mower with defective main switch.

Switch off the machine before carrying out any service or maintenance. Here's how to take care of your Robotic Mower.

Keep it sharp

-  **WARNING:** Before cleaning, adjusting, or replacing the blades, turn your Robotic Mower OFF and put on protective gloves.
-  **WARNING:** 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.

Robotic 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 (Fig. 53). Each blade of your Robotic Mower has 2 cutting edges. The blade turning disc will make forward and reverse rotation at random to use both cutting edges and minimize the frequency of replacing the blades. Each cutting blade will last up to 2 months when it is programmed to mow everyday. 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 Robotic Mower. Spare blades are also available at your nearest Robotic Mower retailer.



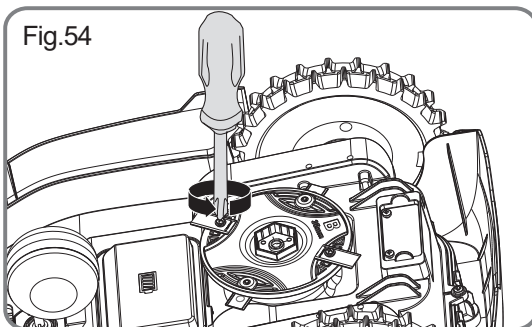
A. Replace the Blades

After some time, usually every season, your Robotic Mower's Blades will need to be replaced. When replacing the blades, make sure to replace ALL of them at the same time. You can replace them with one of the spare blade kits and extra blade screws supplied with your Robotic Mower.

Before attempting to replace your Robotic Mower's blades, turn the power off and put on protective gloves and follow these steps:

1. Gently flip Robotic Mower over.
2. Remove the battery cover and remove the battery.
3. Take the screws off the blades with a screwdriver. (Fig. 54)
4. Firmly screw on the new blades.
5. Refit the battery and the battery cover.

⚠ WARNING: After screwing the blade to the blade disc, make sure the blade is able to spin freely.

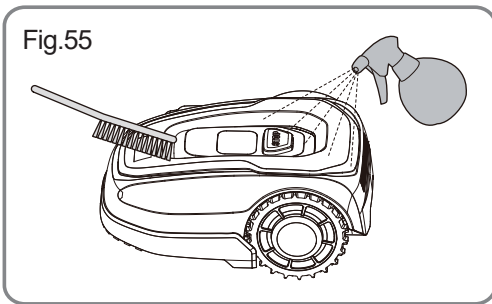


Keep it clean

⚠ WARNING: Before cleaning, turn your Robotic Mower OFF. Put on protective gloves before cleaning the blade turning disc and do not rinse or flush with water.

A. Cleaning the body

Your Robotic Mower will live a much happier and longer life if it is cleaned regularly. Although, since your Robotic Mower is an electric machine, you will need to take care when cleaning. **DO NOT use a hose, high pressure washers and do not pour running water on your Robotic Mower.** It is best to use a spray bottle filled with water. When cleaning the machine body, use a soft brush or clean cloth and avoid using solvents or polishes (Fig. 55). Lastly, remove all build up of grass clippings and debris.



B. Cleaning the Underside

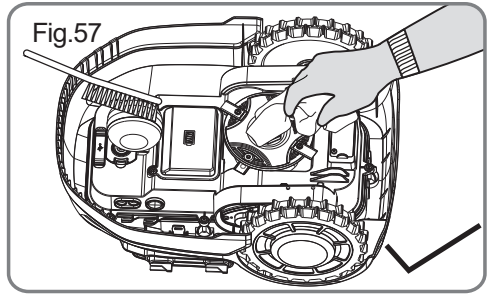
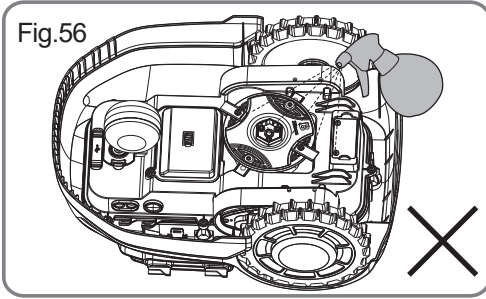
Again, it is important that you power Robotic Mower OFF and **wear protective gloves before touching the blade turning disc.**

First, flip your Robotic Mower upside down to expose its underside. Here you will see the blade disc, the chassis, and the front wheel and driving wheels. Clean everything thoroughly with a soft brush or moist rag.

⚠ WARNING: NEVER clean the underside of Robotic Mower with running water. Component damage can occur. (See Fig. 56, 57)

Rotate the blade disc to ensure it rotates freely. Check the blades spin freely around the fixing screws. Remove any obstructions.

⚠ WARNING: Remove any lodged debris so that it does not cause a crack in the blade disc. Even the tiniest crack can decrease your Robotic Mower's mowing output.



C. Clean the contact pins and the charging strips

Clean the contact pins located on the charging station and the charging strips located on Robotic Mower using a cloth. Remove any built up grass clippings or debris around the contact pins and charge strips periodically to ensure Robotic Mower successfully charges each time.

Battery life

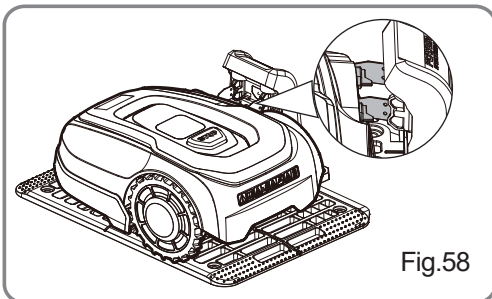
The heart of Robotic Mower is its 20V Li-Ion battery. For proper storage of the battery, make sure it is fully charged and kept in a cool dry place.

NOTE: The recommended Robotic Mower operation temperature is between 0-55°C. The life-span of Robotic Mower's battery depends on various factors, such as:

- The length of the mowing season in your region
- Amount of hours Robotic Mower mows per day
- Battery maintenance during storage

Robotic Mower can be charged manually without the boundary wire.

1. **Connect the charging station to a suitable power supply. The green light on the charging station will turn on.**
2. **Manually dock Robotic Mower into the charging station while Robotic Mower is powered off. (Fig. 58)**
3. **The green light on the charging station will be flashing. Robotic Mower will begin to charge.**



Winter hibernation

Your Robotic Mower will live longer and healthier if it is allowed to hibernate. So even though it is troublesome, we recommend storing your Robotic Mower in your shed or garage during the winter.

Before you prepare your Robotic Mower for winter hibernation, we recommend you:

- Thoroughly clean your Robotic Mower
- Fully charge the battery and remove it from Robotic Mower
- Turn power off


To maximize the battery life, fully charge the battery and remove it from Robotic Mower before storage during winter.

 **WARNING: Protect the underside of Robotic Mower from water. NEVER store Robotic Mower upside down outdoors.**

The boundary wire can be left in the ground but its ends should be protected, such as placed in a tin can with grease. If the charging station is left outside for the winter, leave the boundary wire connected.

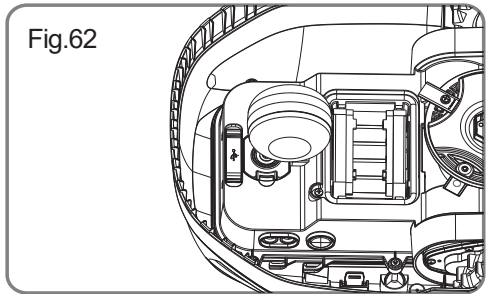
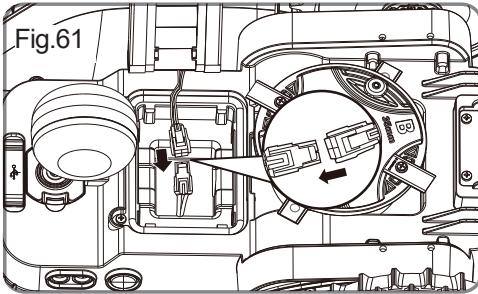
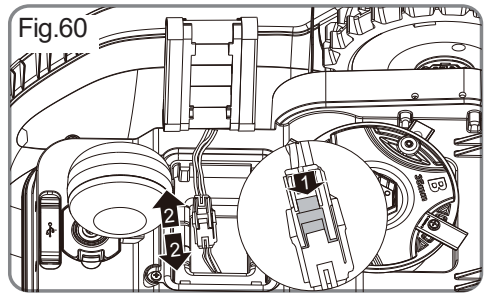
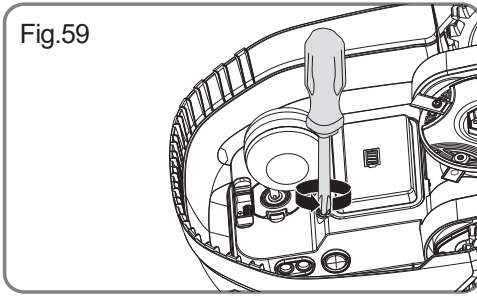
NOTE: When bringing Robotic Mower back to work after winter hibernation, make sure the charging strips and contact pins are clean. We recommend using a fine grade emery cloth to clean the contacts.

Replacing the battery

 **WARNING: Power off before attempting any adjustment, replacement or repair. Before replacing the blades, turn your Robotic Mower OFF and put on protective gloves.**

If you need to replace the battery, follow these steps:

1. Gently turn your Robotic Mower upside down.
2. Remove the screws on the battery cover. Remove the battery cover. (Fig. 59)
3. Lift out the old battery carefully. Press the latch and release the connectors. (Fig. 60)
NOTE: Do not pull by the cables. Hold the connectors and release the latch.
4. Connect a new original battery by attaching the connectors until they click into position. (Fig. 61)
5. Fit the battery as shown. (Fig. 62) Place the cover back in its position and tighten the screws.





























Function Messages

Display	Message	Action
- F I -	Rain delay activated.	No action is required.




Error messages

Display	Cause	Action
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- E 1 -	Robotic Mower is outside working area.	<ol style="list-style-type: none"> 1. If Robotic Mower is actually outside its territory: turn Robotic Mower off, take Robotic Mower inside its territory. Turn Robotic Mower on. Press  then . 2. If Robotic Mower is inside its territory, check if the LED on the charging station is green. If not, verify that the charging station 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. 3. If the LED light on the charging station turns on red, confirm that the boundary wire is well connected to the clamps on the charging station. If the problem persists, check that the boundary wire hasn't been cut.
- E 2 -	Wheel motor blocked	<ol style="list-style-type: none"> 1. Turn Robotic Mower off; take Robotic Mower to an area free of obstacles. 2. Turn Robotic Mower on. Press  then . 3. If the error message is still displayed, turn power off; turn Robotic Mower upside-down and check if there's anything preventing the wheels from rotating. 4. Remove any obstruction, turn Robotic Mower upright, turn power on. Press  then .
- E 3 -	Blade disc blocked	<ol style="list-style-type: none"> 1. Turn Robotic Mower off. 2. Turn Robotic Mower upside down and check if there's anything preventing the blade disc to rotate. 3. Remove any obstruction. 4. Turn Robotic Mower upright and take it to an area with short grass or adjust the cutting height; 5. Turn Robotic Mower on. Press  then .
- E 4 -	Robotic Mower is trapped.	<ol style="list-style-type: none"> 1. Turn Robotic Mower off. 2. Take Robotic Mower to an area in your lawn free of obstacles obstacles. 3. Turn Robotic Mower on. Press  then . 4. If the error message is still displayed; turn power off; turn Robotic Mower upside-down. Check if there is anything preventing the wheels from rotating. 5. Remove any obstruction, turn Robotic Mower upright, turn power on. Press  then .



- E5 -	Robotic Mower is lifted up.	<ol style="list-style-type: none"> 1. Turn Robotic Mower off. 2. Take Robotic Mower to a lawn area clear of obstacles, turn Robotic Mower on. Press  then . 3. If the error message is still displayed: turn Robotic Mower off, turn Robotic Mower upside-down and check if there's anything preventing the front wheels from rotating. 4. Remove any possible object, turn Robotic Mower upright, turn Robotic Mower on. Press  then .
- E6 -	Robotic Mower is upside down.	Turn Robotic Mower upright. Press  then  .
- E7 -	Battery error	<ol style="list-style-type: none"> 1. Check the battery temperature. If the temperature is too high, wait until the temperature has cooled down. Press  then . 2. If the error message is still displayed, replace a new battery. Restart Robotic Mower. Press  then . 3. If the error repeatedly occurs, try to change the working schedule.
- E8 -	It takes too long for Robotic Mower to go back to the charging station.	Manually dock Robotic Mower in the charging station for charging. After Robotic Mower is fully charged, Press  then  . Refer to the installation manual.
- EE -	Error unknown.	Restart Robotic Mower. Press  then  . If the error message is still displayed, contact a service agent for help.



NOTES

- Before turning power on, always return Robotic Mower to its territory. If not, “- E1 -” will be displayed. This message is also displayed when Robotic Mower is sitting over the boundary wire when turned on.
- If for any reason—i.e. a party, children playing...—you want to park your Robotic Mower in the charging station: Press  then . Robotic Mower will go to its charging station and stay there. Or press  to turn Robotic Mower off.
- If an error repeatedly occurs in the same area of your lawn, you might have a problem with the boundary wire. Please refer to the Installation Guide and check your set up with its help.
- If your lawn is divided in two separate areas connected by a corridor less than 1m, one of which is not provided with the charging station: when Robotic Mower runs out of charge, take it manually to the charging station, the charge process will start.
- If Robotic Mower runs abnormally once in a while, please try to restart it. If the problem is not resolved, try to removing and reinstalling the battery. If the problem is still not resolved, please contact a Robotic Mower service agent for help.
- Do not wash your Robotic Mower with a high pressure washer. This could cause damage to the battery or the machine.

Troubleshooting

If your Robotic Mower does not work correctly, follow the troubleshooting guide below. If the issue persists, contact your Dealer.

Symptom	Cause	Action
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.
Red light turns on the charging station.	The boundary wire isn't connected.	Check that the boundary wire has been connected correctly to the charging station. Check there are no breaks in the boundary wire, especially in the wire ends.
Robotic Mower turns on, but the blade disc does not move.	Robotic Mower is searching for the charging station (unless you press  then  button to make it go to the charging base)	This is normal. Robotic Mower needs to recharge, the blade disc does not rotate while it is searching for the charging station automatically.
Robotic Mower vibrates.	Blades may be damaged. Check condition of the blade disc.	Check the blades, and replace them if damaged. Remove debris and foreign objects from the blades and blade disc.
Grass is being cut unevenly.	Robotic Mower does not work enough hours per day.	Add more hours to the scheduled mowing time.
	Mowing area is too big.	Try decreasing the size of the mowing area or adding more hours to the mowing time.
	Blades are dull.	Change all the blades and screws in order to balance the blade disc.
	The cutting height is too low for the length of the grass.	Raise the cutting height and then gradually lower.
	Grass or other object has wrapped around the blade disc.	Check the blade disc and remove the grass or other object.
	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 remove the debris.
Your Robotic Mower is inside its territory and the boundary wire is connected. And “- E ; -” is displayed.	The boundary wire ends are clamped incorrectly.	Reverse the boundary wire ends.
	The boundary wire is broken.	Repair damaged boundary wire with connectors.

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 station and the charging strip on Robotic Mower using a cloth.
	The charging protection program has activated due to high temperature.	Place the charging station 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.
	Robotic Mower does not operate correctly while manually charging.	Refer to manual in Section "Battery life".
Robotic Mower is starting to have shorter run-times between charges.	Something is clogging in the blade disc.	Take off the blade disc and clean it.
	Robotic Mower is shaking heavily.	Check the blade disc and blades, remove debris and foreign objects from the blades and blade disc.
	The battery may be exhausted or old.	Replace battery.
Robotic Mower is not operating at the correct time.	The clock is not set to the correct time.	Set the clock to the correct time, refer to Section "Setting".
	Programmed cutting times for Robotic Mower are not correct.	Change the time settings for the mower to start and stop.
	Robotic Mower is manually docked in the charging station.	Press  then  .
	The battery does not charge as its temperature rises above 55°C in hot weather.	Wait until the battery has cooled down.
Robotic Mower cannot correctly dock with the charging station.	Environmental influences.	Restart Robotic Mower.
	Poor connection caused by debris on the charging strip.	Clean the contact pins located on the charging station and the charging strip on Robotic Mower using a cloth.
The green light on the charging station turns on before charging is complete.	The charging station is overheated.	Place the charging station in a shady area or wait until the temperature has cooled down.
Robotic Mower runs outside the boundary wire.	The boundary wire has been installed with tight corners.	Check the boundary wire to ensure the corners are smooth.

Robotic Mower does not mow an area within a boundary wire zone.	The cutting area is larger than the allowable cutting area for Robotic Mower.	Reduce the cutting area or use Robotic Mower with a larger allowable cutting area.
Robotic Mower reverses or rotates erratically near the boundary wire.	The boundary wire of another Robotic Mower or another robotic mower is positioned too closely.	Ensure your Robotic Mower boundary wire has at least 1m of space between the neighboring boundary wire.
	In wet conditions, the boundary wire electric signal may leak were wire has been joined or repaired.	Check boundary wire joints. Insulate to provide a fully waterproof connection.
	There is boundary wire electric signal leakage due to broken insulation.	Repair damaged boundary wire insulation with connectors.
Robotic Mower wheels skid or damage lawn.	Foreign obstacles, such as twigs and branches may be lodged under Robotic Mower.	Remove foreign objects from underside of Robotic Mower.
	The lawn is too wet.	Wait until lawn has dried.
Robotic Mower exits the boundary wire due to high speed when going down a hill.	The boundary wire is placed on a slope steeper than 17% (10°).	Reposition the boundary wire away from slopes that are steeper than 17% (10°). Please refer Installation Guide for details.
Erro	Software update failure occurs.	Try again according to section "Software update".
Robotic Mower runs in circles; turns right or left even there is no obstacle in front of it.	The boundary wire of another Robotic Mower or another robotic mower is positioned too closely.	check and ensure your Robotic Mower boundary wire has at least 1m of spacing between the neighboring boundary wire. If the problem cannot be solved, please contact Robotic Mower service agent for help.
Keyboard of the mower fails to work.	Keyboard is damaged.	Restart Robotic Mower. If the problem persists, keep pressing the on/off key for 10 seconds and then restart Robotic Mower. If the problem cannot be solved, please contact Robotic Mower service agent for help.
	Poor connection for the cable between the control panel and the mainboard or the cable is damaged.	
	Keyboard needs to be reset.	

Mower fails to avoid obstacles.	The boundary wire of another Robotic Mower or another robotic mower is positioned too closely.	check and ensure your Robotic Mower boundary wire has at least 1m of spacing between the neighboring boundary wire. If the problem cannot be solved, please contact Robotic Mower service agent for help.
	The obstacle is lower than 10cm.	This is normal.

Recycling and disposal



Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or local store for recycling advice.

For further information visit www.recycle-more.co.uk.

The product comes in a package that protects it against damage during shipping. Keep the package until you are sure that all parts have been delivered and the product is working properly. Recycle the package afterwards.

Disposal of an exhausted battery pack



The battery is Li-Ion type. To preserve natural resources, please recycle or dispose of the battery pack properly. Consult your local waste authority for information regarding available recycling and / or disposal options.

Discharge your battery pack by operating your machine, then remove the battery pack from the machine and cover the battery pack connections with heavy duty adhesive tape to prevent short circuit and energy discharge.

Do not attempt to open or remove any of the components.

We, [Positec Technology \(China\) Co., Ltd \[JC\(C1\)\]](#), 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 \[JC\(C2\)\]](#) 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 mower**
Type **CRM16G1 (CRM - designation of machinery, representative of Robotic Lawnmower) (Serial number is placed on the back page) with battery charger LA8001 and charging station LA3001**
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 **Annex V**
- Measured Sound Power Level **62 dB (A)**
- Declared Guaranteed Sound Power Level **65 dB (A)**

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-2200353

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 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 V1.3.1
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



2024/08/05
Allen Ding
Deputy Chief Engineer, Testing & Certification
Positec Technology (China) Co., Ltd.
18, Dongwang Road, Suzhou Industrial Park, Jiangsu 215123, P. R. China

