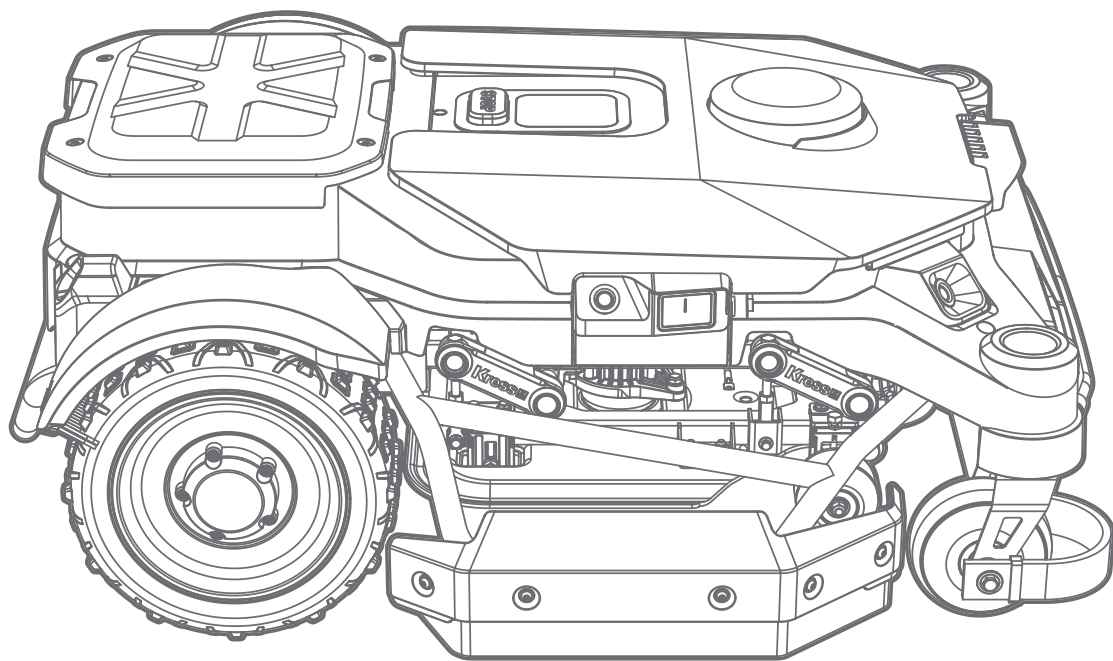


# Kress



## Owner's Manual







# Mower SN Code



To match the app account with the mower, please scan the SN code.

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

## Product safety

### General safety warnings

 **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.

### **Do not expose the appliance or battery to excessive temperatures**

1. rechargeable batteries are to be removed from the appliance before being charge
2. different types of batteries or new and used batteries are not to be mixed;
3. exhausted batteries are to be removed from the appliance and safely disposed of;
4. if the appliance is to be stored unused for a long period, the batteries should be removed;
5. do not use non-rechargeable batteries in

- place of rechargeable batteries
6. do not use modified or damaged batteries.
7. **WARNING:** Use only with KA0085 charging station or additional charging station listed in Operator's Manual

### **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) Confirm that the virtual boundary is established as instructed and the virtual boundary is regularly maintained. Before each working cycle, the machine goes around the working area to check whether the virtual boundary exists, if it does not exist, the machine will shut down. The virtual boundary specifies the work area where the machine is allowed to operate. The RTK antenna in the machine senses when it is approaching the virtual boundary. When the machine hits an obstacle or approaches the virtual boundary the product selects a new direction.
- 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 is 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 is 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 is on and the correct PIN code has been entered.
- l) Keep your hands and feet away from the rotating blades. Never place your hands or feet close to or under the body when robotic lawnmower is in operation.
- m) To avoid using the machine and its peripherals in bad weather conditions especially when there is a risk of lightning.
- n) Not to touch moving hazardous parts before these have come to a complete stop.
- o) For machines used in public areas, that warning signs shall be placed around the working area of the machine. They shall show the substance of the following text:  
Warning! Automatic lawnmower! Keep away from the machine! Supervise children!
- p) To avoid the risk of injury, please stop the mower and carry out the mower to another lawn to be mowed. Never drag or pull the mower on operation when you change the lawn to be mowed.

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

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

### Maintenance and storage

 **WARNING! When the mower is turned upside down the power must always be off.**  
**The power should be 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 using the red metal bar on the side of the machine. When carrying, keep the blade disc facing downward and 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.

### 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 Kress. 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.

### **For mobile device**

- a) To satisfy EMC & RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation

- b) To ensure compliance, operations at closer than this distance is not recommended

### **General Safety Warnings for charging station**

 **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 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. 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 charging station**

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 short out the contacts of battery or charger.
7. Respect the polarity "+/-" when charging.
8. Do not open the unit and keep it out of the reach of children.
9. Do not charge the batteries of other manufactures or ill-suited models.
10. Ensure that the connection between the battery charger and battery is correctly positioned and is not obstructed by foreign bodies.
11. Keep battery charger's slots are free of foreign objects and protect against dirt

and humidity. Store in a dry and frost-free place.

12. 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.
13. Do not recharge non-rechargeable batteries, as they can overheat and break.
14. 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 0 °C, or above 45 °C. This is important as it can prevent serious damage to the battery pack.
15. Charge only battery pack of the same model provided by Kress and of models recommended by Kress.

# Symbols



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



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



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



WARNING – Do not ride on the machine.



Li-Ion Li-Ion

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



Do not burn.



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



Do not wash the machine with a high pressure washer



Read operator's manual



Prohibit disassembling the machine without authorization



Warning



Fuse



Plus; positive polarity  
Positive terminal



Minus; negative polarity  
Negative terminal



Double Insulation with functional earthing



KA0085

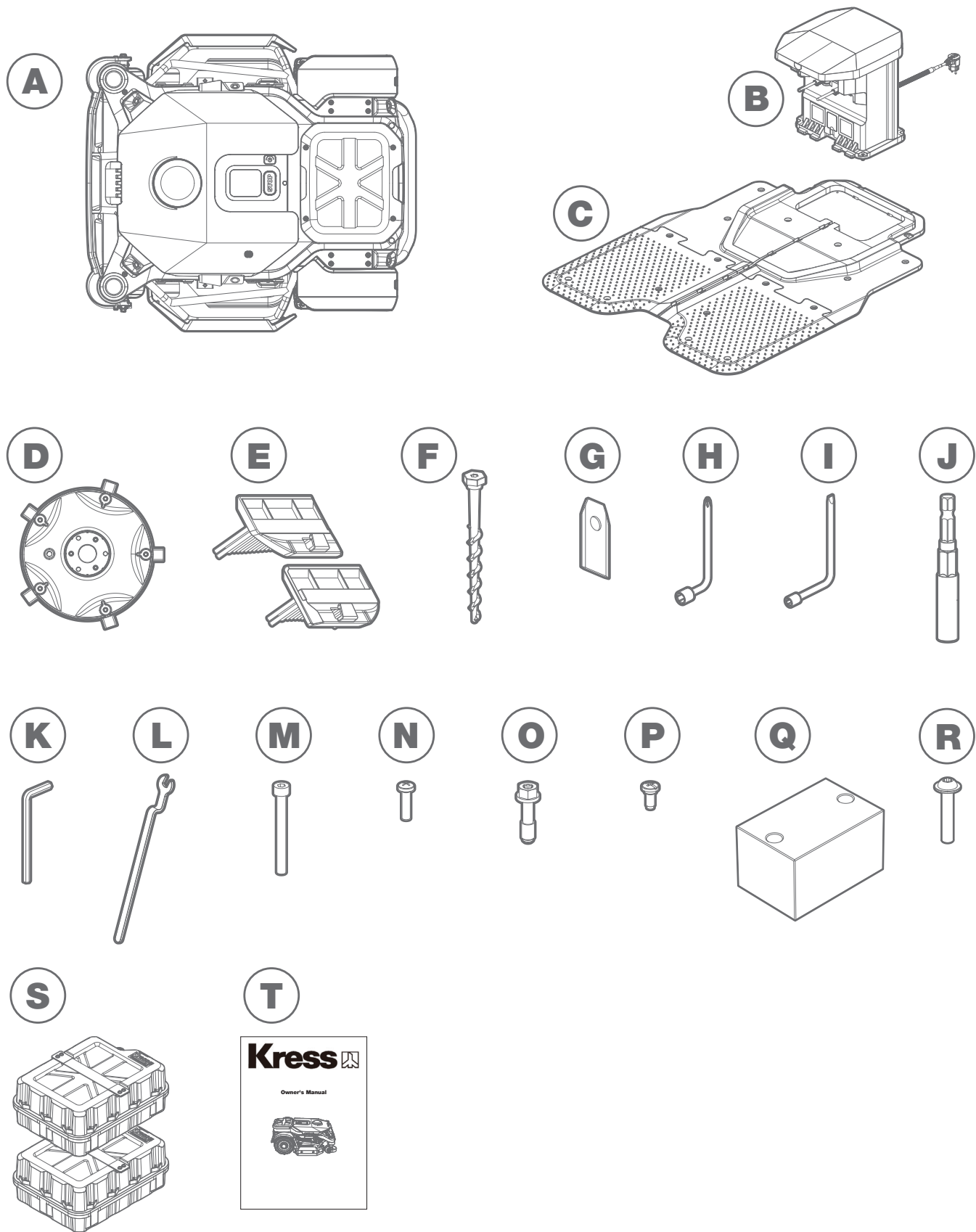
use with model KA0085 battery charger, See instruction manual for additional battery chargers.



RCM marking

ABN: Australian Business Number. By this number, business information such as entity type, status, business location etc. can be found at website <http://abr.business.gov.au>.  
ABN of Positec Australia Pty Limited is 14 101 682 357

# Component list





- A

Mega Master

B

Charging pile

C

Charging base

D

Spare blade discs

E

Wheel brush

F

Charging base fixing nails

G

Spare blades

H

Phillips socket

I

Flat socket

J

Blade disc removal socket
- K

Hex key

L

Height-adjustable wrench

M

Rear wheel removal screws

N

Screws for connecting charging station to base plate

O

Screws for fixing disc

P

Screws for fixing blades

Q

Counterweight

R

Counterweight fixing screws

S

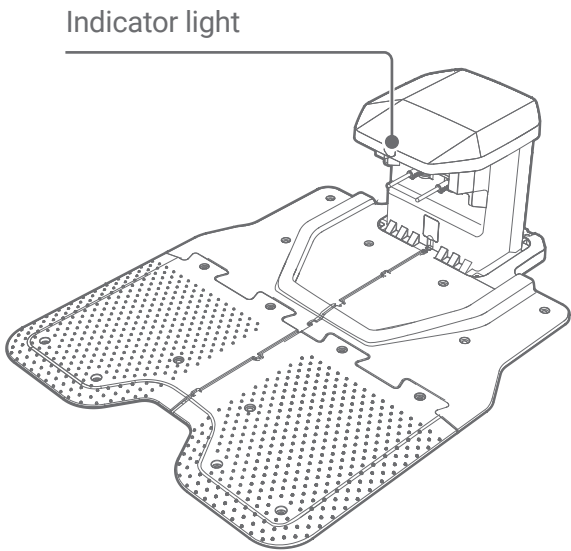
Battery pack

T

Manuals

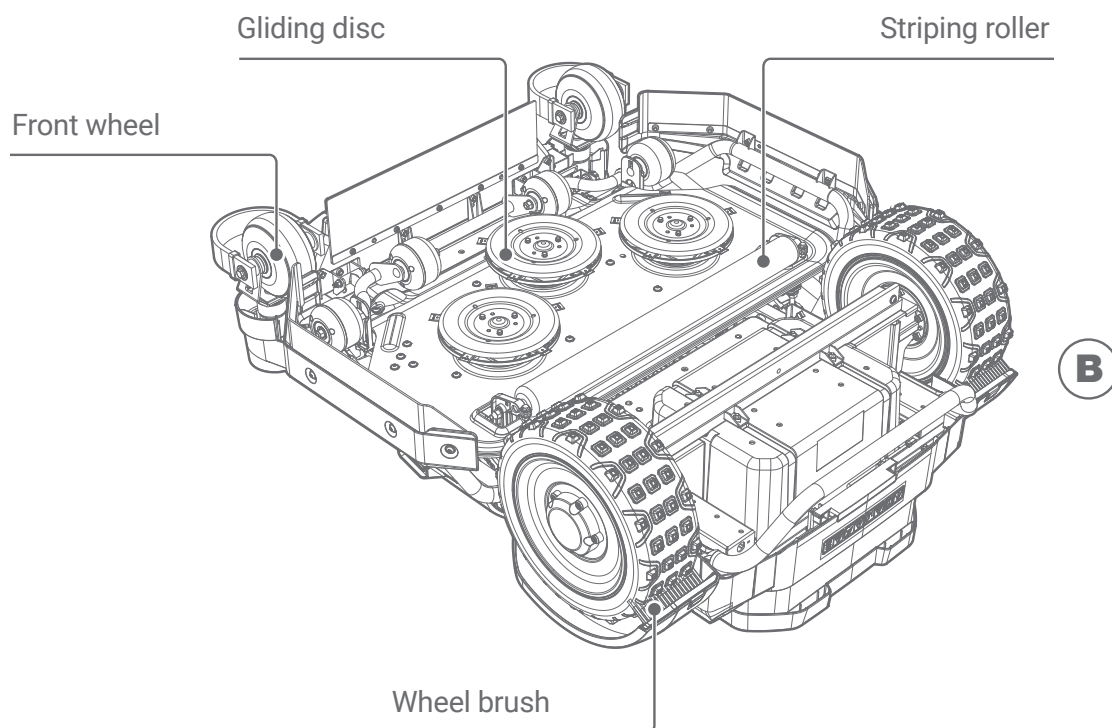
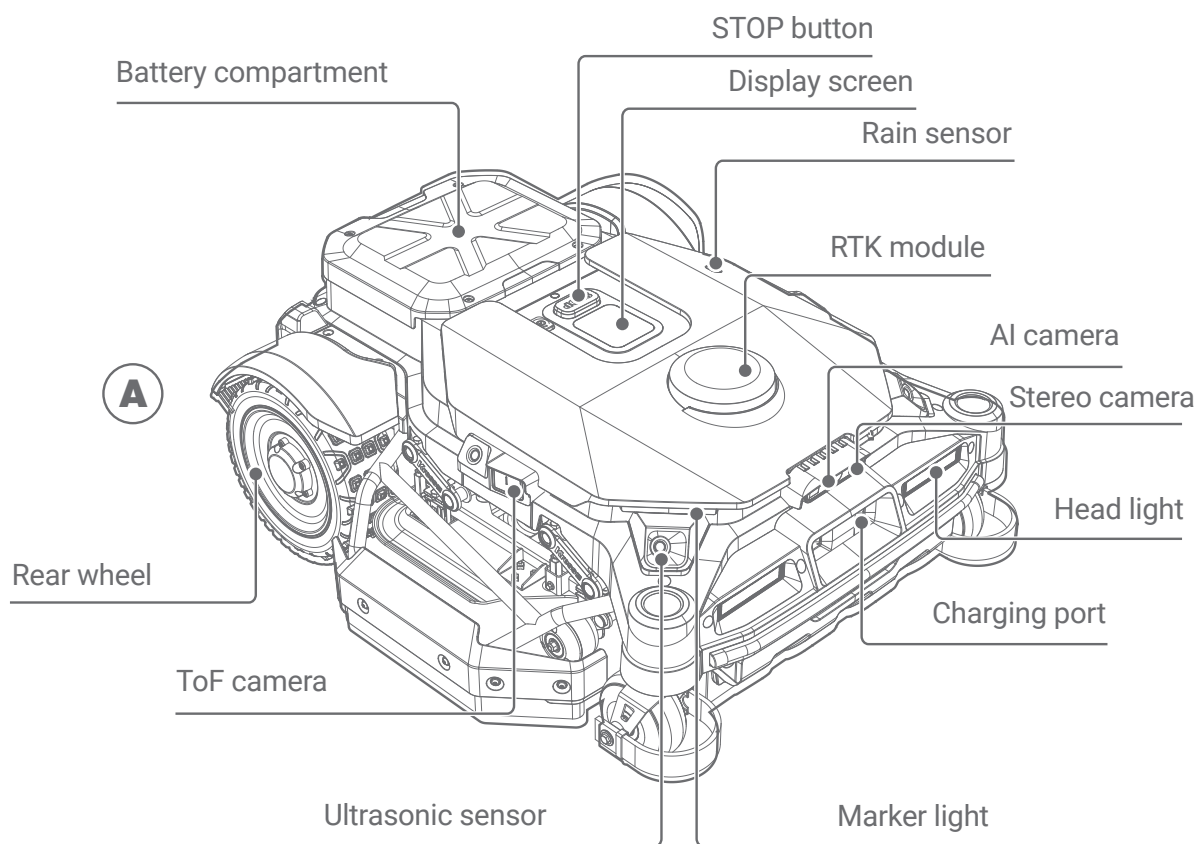
Not all the accessories illustrated or described are included in standard delivery.

# Getting to know power supply



| Type         | Function Description                                          |
|--------------|---------------------------------------------------------------|
| Green        | Solid: Charging station standby                               |
|              | Flashing: Bluetooth not connected (Mower in charging station) |
|              | Breathing: Charging in progress                               |
| Blue         | Solid: Mower fully charged                                    |
|              | Flashing: Bluetooth reconnecting                              |
| Blue & Green | Flashing: Bluetooth connected (Mower not in charging station) |
| Yellow       | Flashing: Upgrade (ESP32 module)                              |
|              | Breathing: Upgrade (ACDC module)                              |
| Red          | Error                                                         |

# Getting to know the mower



This picture is only for reference



# Sensor configuration

Your Mega Master is equipped with multiple sensors that work together for safe, autonomous operation:

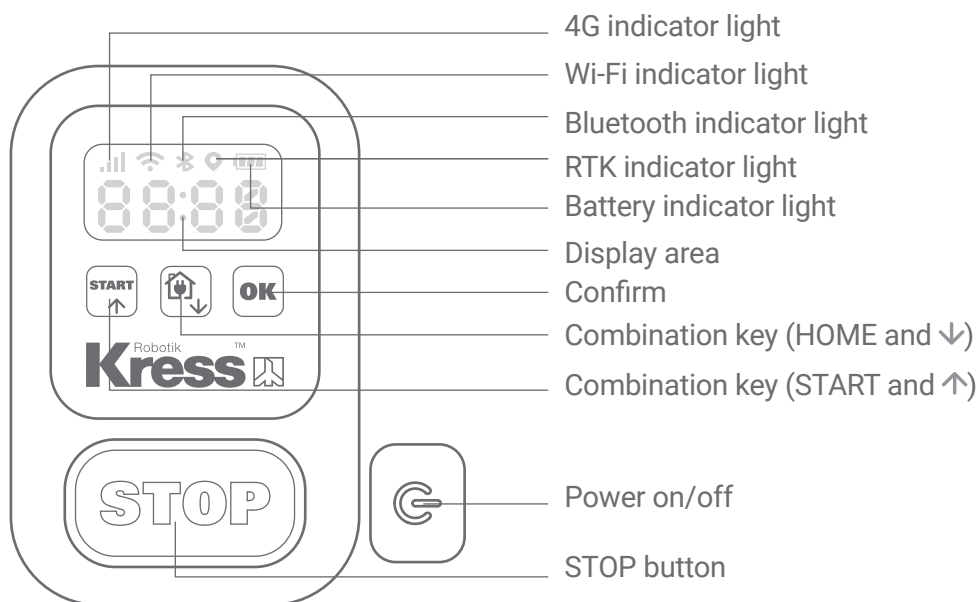
- **Front Stereo camera**
- **Front ai camera**
- **RTK positioning module**
- **6 Ultrasonic sensors around the body**
- **2 ToF cameras**

These sensors enable obstacle detection, spatial awareness, and precision navigation.

## Camera Activation/Deactivation and Logging

- **Enable Condition:** The camera is automatically enabled when the mower is powered on.
- **Disable Condition:** The camera is automatically disabled when the mower is powered off.
- **Logging:** All camera activation and deactivation events are recorded in the system log for subsequent review and traceability.

# Parts and functions



## Control

14  
EN

|                                      |                                                                                                          |
|--------------------------------------|----------------------------------------------------------------------------------------------------------|
| Power on                             | Press power button for 5s                                                                                |
| Power off                            | Press power button for 5s                                                                                |
| Enter applink mode                   | Press "START" for 5s                                                                                     |
| Start mowing                         | Press "START" and then "OK"                                                                              |
| Stop mowing                          | Press "STOP"                                                                                             |
| Return home                          | Press "HOME" and then "OK"                                                                               |
| How to restart the mower             | Power off and power on, press "START" and then "OK"                                                      |
| How to change pin code               | Press "START" and "HOME" together for 5s, use "START" or "HOME" to choose new PIN, press "OK" to confirm |
| How to unlock the display            | Enter PIN code by "START" or "HOME", press "OK" to confirm                                               |
| How to check firmware version number | Press "HOME" for 5s                                                                                      |
| How to restore factory settings      | Press "STOP" and "OK" together for 5s                                                                    |
| How to enter edge cutting mode       | Press "START" 3 times quickly, and then "OK"                                                             |
| How to enter UEC mode                | Press "STOP" and "START" together for 10s                                                                |
| How to release/lock motor brake      | Press "START" 10 times consecutively to release the brake, press "STOP" to exit.                         |

# Technical data for the mower

|                                         | <b>KR238E.1</b>          |
|-----------------------------------------|--------------------------|
| Rated voltage                           | 60 V $\equiv$ Max.*      |
| No load speed                           | 3700 /min                |
| Cutting area                            | 88000 m <sup>2</sup> .** |
| Cutting diameter                        | 620 mm                   |
| Cutting height                          | 10-100 mm***             |
| Machinery weight                        | 99 kg                    |
| Protection degree                       | III                      |
| App                                     | Y                        |
| Frequency bands for Bluetooth           | 2400-2483.5 MHz          |
| Maximum Transmitted Power for Bluetooth | 8 dBm                    |
| Frequency bands for Wi-Fi               | 2400-2483.5 MHz          |
| Maximum Transmitted Power for Wi-Fi     | 20 dBm                   |
| Maximum slope within the work surface   | 40%****                  |
| Charging temperature range              | 0 °C ~ 45 °C             |

\* Voltage measured at no load. Initial battery voltage reaches maximum of 60 volts. Nominal voltage is 54 volts.

\*\* The stated area capacity is based on a 48-hour operating cycle under ideal laboratory conditions. The actual area capacity may vary depending on blade type and condition, as well as grass growth and moisture.

\*\*\* The 10 mm cutting height may vary depending on the specific working conditions.

\*\*\*\* 40% Maximum slope within the work surface represents the ability to climb straight up. The climbing capability at the boundary is 20%.

# Technical data for charging station

|                       | <b>KA0085</b>                                                                         |
|-----------------------|---------------------------------------------------------------------------------------|
| Rated input data      | 230-240 V~50 Hz, 13 A                                                                 |
| Output voltage        | 60 V $\equiv$ 30 A Max.*, 1800 W                                                      |
| Battery type          | Lithium-ion                                                                           |
| Battery model         | KA3310                                                                                |
| Battery capacity      | 56 V $\equiv$ 16.6 Ah x2                                                              |
| Charging time approx. | 60 min.**                                                                             |
| Weight                | 15 kg                                                                                 |
| Protection class      |  |

\* Under standard temperature (101kPa, 25°C) startup condition.

\*\* Under standard temperature (101kPa, 25°C) startup condition. High temperatures can trigger the

throttling protection mode, which may potentially prolong the charging time.

## Technical data for 4G

| Band        | Tx(Mhz)   | Rx(Mhz)   | RF Output Power (Max) |
|-------------|-----------|-----------|-----------------------|
| LTE-FDD B1  | 1920-1980 | 2110-2170 | 23dBm                 |
| LTE-FDD B3  | 1710-1785 | 1805-1880 | 23dBm                 |
| LTE-FDD B7  | 2500-2570 | 2620-2690 | 23dBm                 |
| LTE-FDD B8  | 880-915   | 925-960   | 23dBm                 |
| LTE-FDD B20 | 832-862   | 791-821   | 23dBm                 |
| LTE-FDD B28 | 703-748   | 758-803   | 23dBm                 |
| LTE-TDD B38 | 2570-2620 | 2570-2620 | 23dBm                 |
| LTE-TDD B40 | 2300-2400 | 2300-2400 | 23dBm                 |
| LTE-TDD B41 | 2555-2655 | 2555-2655 | 23dBm                 |

## Technical data for GNSS

16  
EN

|                                          |                                                 |
|------------------------------------------|-------------------------------------------------|
| Global Navigation SatelliteSystem (GNSS) | GPS / GLONASS / BDS / Galileo / QZSS            |
| Nominal Frequency                        | 1559-1610 MHz<br>1215-1300 MHz<br>1164-1215 MHz |

## Noise data

|                                                                                                                                               |                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
|                                                                                                                                               | <b>KR238E.1</b>                                          |
| A weighted sound pressure                                                                                                                     | $L_{pA} = 73 \text{ dB (A)}, K_{pA} = 2.9 \text{ dB(A)}$ |
| A weighted sound power                                                                                                                        | $L_{wA} = 81 \text{ dB (A)}, K_{wA} = 2.9 \text{ dB(A)}$ |
| Wear ear protection when sound pressure is over 80dB(A)  |                                                          |

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

# Accessories

|                                                      | <b>KR238E.1</b> |
|------------------------------------------------------|-----------------|
| Charging pile                                        | 1               |
| Charging base plate                                  | 2               |
| Spare blade discs                                    | 3               |
| Wheel brush                                          | 2 pair          |
| Charging base fixing nails                           | 20              |
| Spare blades*                                        | 150             |
| Phillips socket                                      | 1               |
| Flat socket                                          | 1               |
| Blade disc removal socket                            | 1               |
| Hex key                                              | 1               |
| Height-adjustable wrench                             | 1               |
| Rear wheel removal screws                            | 2               |
| Screws for connecting charging station to base plate | 4               |
| Screws for fixing disc                               | 9               |
| Screws for fixing blades                             | 150             |
| Counterweight                                        | 2               |
| Counterweight fixing screws                          | 4               |

\* KR238E.1 uses reinforced double-L blades with a high safety factor. Only genuine original blades must be used.

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

## Intended use

The garden product is intended for commercial 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, the mower may be programmed to operate at any time or frequency. It is not intended for digging, sweeping or snow cleaning.

# Maintenance

Your Mega Master 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 Mega Master with defective on/off switch. Switch off the machine before carrying out any service or maintenance. Here's how to take care of your Mega Master.

## 1

### Keep it sharp

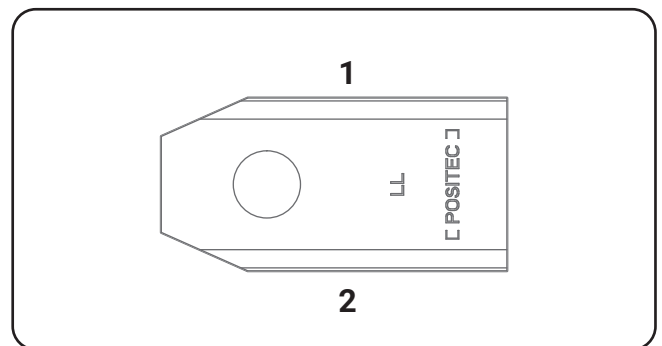


**WARNING:** Before cleaning, adjusting, or replacing the blades, turn your Mega Master OFF and put on protective gloves.



**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.

The Mega Master 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. Redesigned blade profile better prevents grass clippings from getting caught in the gap between the disc and the blade. 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 Mega Master. Spare blades are also available at your nearest Kress retailer.



18

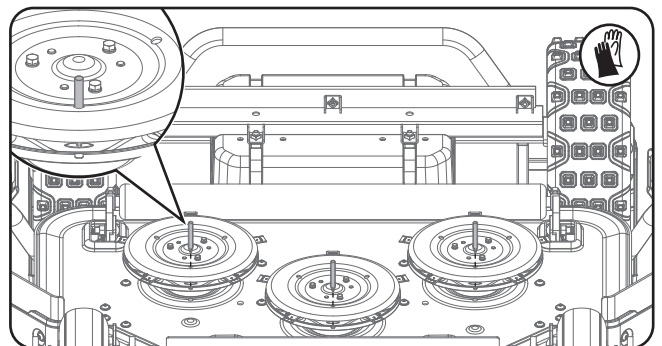
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### A. Replace the blades

We recommend you to check your Mega Master's blades every two days (48H working time) and replace the blades and screws when needed. You can adjust the frequency of replacing the blade according to the cutting quality of the lawn. 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 Mega Master.

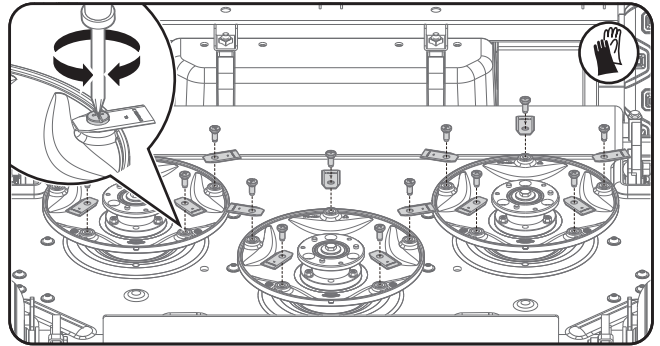
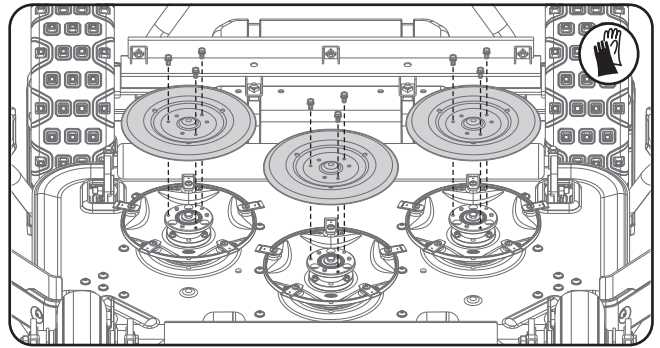
Before attempting to replace your Mega Master's blades, turn the power off and put on protective gloves and follow these steps:

1. Gently flip the Mega Master over.
2. Rotate the gliding disc and blade disc to align the hole on the gliding disc, blade disc and cutting deck. Insert a long screwdriver or similar tool to fix the blade disc and gliding disc.



3. Take the screws off the gliding disc with a screwdriver.
4. Take the screws off the blades with a screwdriver.
5. Tighten the screws on the new blades to 3 N·m.
6. Firmly screw on the gliding disc.
7. Remove the long screwdriver or similar tool.
8. Repeat the step 2 to step 7 until all blades are replaced.

**Important:** After screwing the blade to the blade disc, make sure the screws are fully tightened and the blade is able to spin freely. After installing the gliding discs, keep the blade disc stationary and rotate the gliding discs to ensure they rotate smoothly without any abnormal noise.



## B. Replace the gliding discs

If the gliding discs are not working well, you can replace the gliding discs. Usually your gliding discs' screws need to be checked and tightened every 3 months, you can adjust the frequency according to the condition of the lawn.

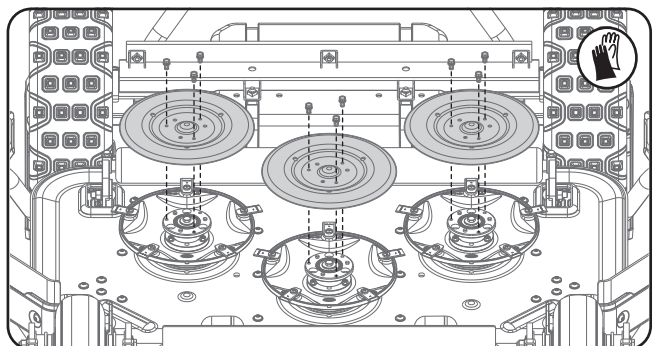
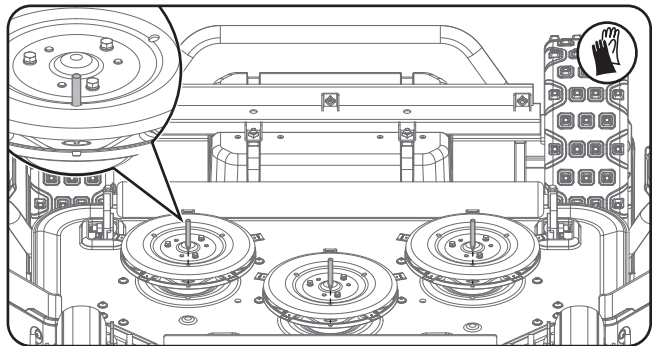
It is recommended not to use an electric screwdriver for installation or disassembly to avoid injury to the hands.

It is recommended to use the gliding discs on flat surfaces. If there are stones in the working area, please clear them in advance or remove the gliding discs.

Before attempting to replace your Mega Master's gliding discs, turn the power off and put on protective gloves and follow these steps:

1. Gently flip the Mega Master over.
2. Rotate the gliding disc and blade disc to align the hole on the gliding disc, blade disc and cutting deck. Insert a long screwdriver or similar tool to fix the blade disc and gliding disc.
3. Remove the 3 screws for fixing the gliding disc and the gliding disc.
4. Install the new gliding discs with new screws. Tighten the screws to 2.8 N·m.
5. Repeat the step 2 to step 4 until all gliding discs are replaced.

**Important:** After installing the gliding discs, keep the blade disc stationary and rotate the gliding discs to ensure they rotate smoothly without any abnormal noise.





## Keep it clean

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

**⚠ WARNING!** YOUR Mega Master can only be washed by using a hose! DO NOT use high pressure washer on your Mega Master. High pressure water can go inside the sealings and damage electronic and mechanical parts.

### A. Cleaning the body

Your Mega Master will live a much happier and longer life if it is cleaned regularly. Since your Mega Master is an electric machine, you will need to take care when cleaning. Hose water clean is supported. 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. Lastly, remove all build-up of grass clippings and debris.

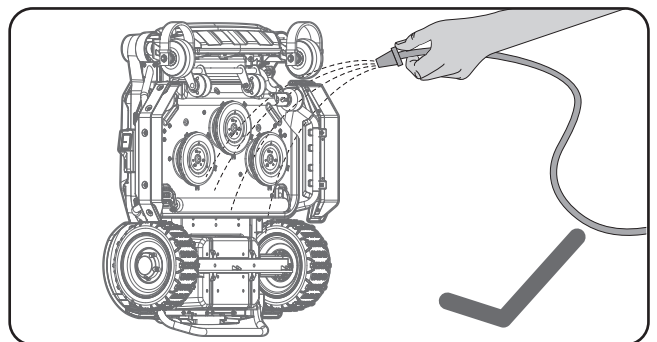
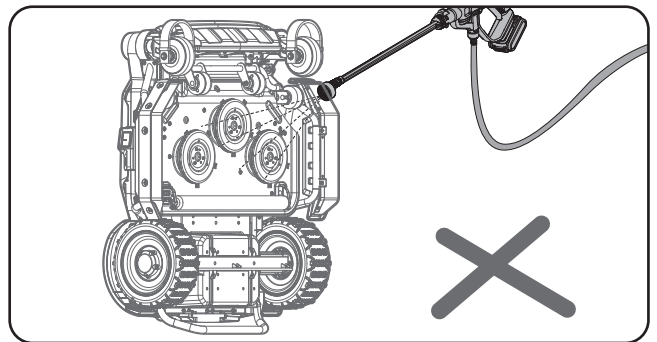
### B. Cleaning the underside

We recommend user to check and clean the underside every two days (48h working time), you can adjust the frequency based on the actual performance of your Mega Master.

Again, it is important that you power the Mega Master OFF and **wear protective gloves before touching the blade turning disc**. First, lift your Mega Master to expose its underside. Here you will see the blade disc, the chassis, the front wheel, the driving wheels and the cutting deck. Clean everything thoroughly with a soft brush or moist rag. Hose water or air gun clean is supported.

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

**IMPORTANT:** Remove any stuck debris so that it does not cause a crack in the blade disc. Even the tiniest crack can decrease.



### C. Clean the contact pins and the charging strips

Clean the contact pins located on the charging base and the charging strips located on the Mega Master using a cloth. Remove any build-up grass clippings or debris around the contact pins and charge strips periodically to ensure the Mega Master successfully charges each time.

#### D. Clean the camera/OAS sensors/ToF sensors

We recommend that users regularly wipe the camera/OAS sensors/ToF sensors with a rag.

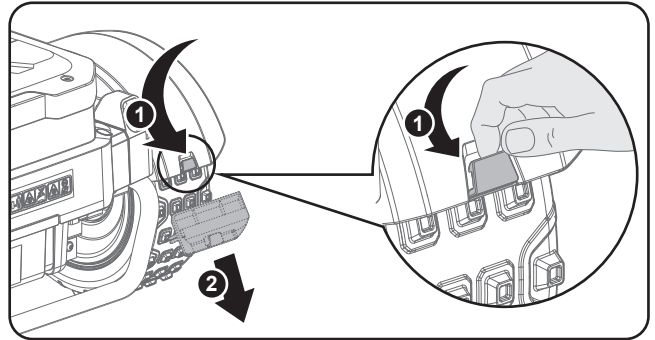
**NOTE: Do not clean the above sensors with any tools that may leave water stains.**

#### E. Replace the wheel brushes

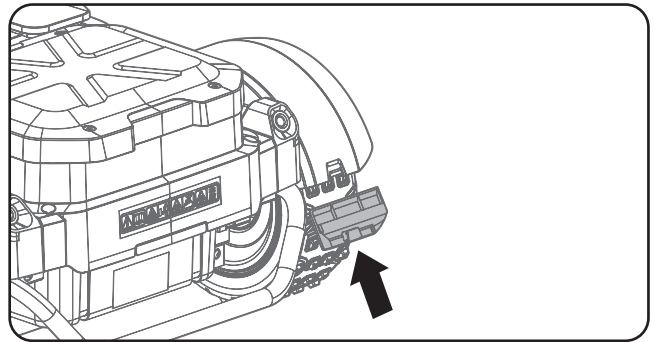
Usually Mega Master's wheel brushes need to be checked and replaced every 3 months, you can adjust the frequency according to the condition of the lawn.

Before attempting to replace your Mega Master's wheel brushes, turn the power off and put on protective gloves and follow these steps:

1. Remove the wheel brushes from the mower.



2.. Install the new wheel brushes.



## 3

#### Battery life

The heart of the Mega Master is its 60V Li-Ion Battery. For proper storage of the battery, make sure it is fully charged and kept in a cool dry place between 0 °C~+55 °C.

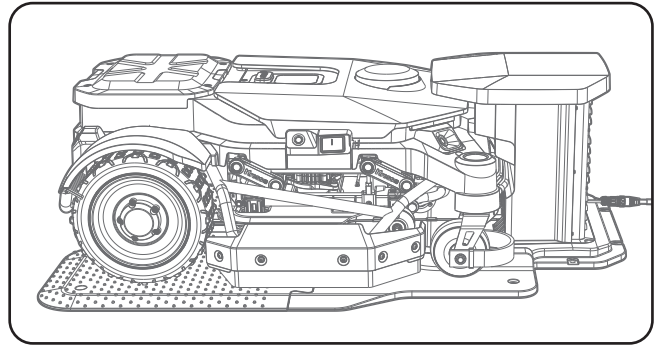
**NOTE:** The recommend Mega Master operation temperature is between 0-55 °C.

The life-span of the Mega Master's battery depends on various factors, such as:

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

## Mega Master can be charged manually.

1. Connect the charging station to a suitable power supply. The green light on the charging station will turn on.
2. Manually dock the Mega Master into the charging station while the Mega Master is powered off.
3. The green light on the charging station will be flashing and Mega Master will begin to charge.



## 4

### Winter hibernation

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

Before you prepare your Mega Master for winter hibernation, we recommend you:

- Thoroughly clean your Mega Master
- Fully charge the battery
- Turn the power off

To maximize the battery life, fully charge the battery before storage during winter.



**WARNING: Protect the underside of Mega Master from water. NEVER store Mega Master upside down outdoors.**

**NOTE:** When bringing the Mega Master 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. Using the app, make sure the date and time are correct and send Mega Master back to what it loves doing: mowing.

## 5

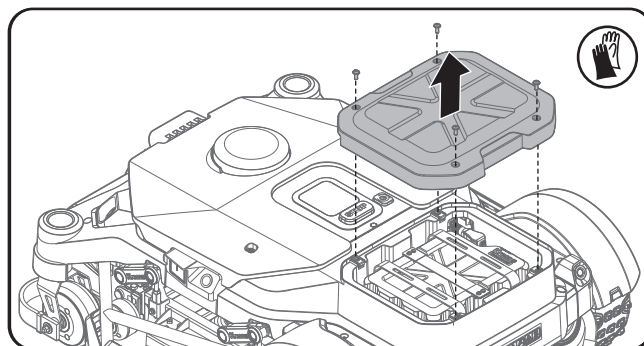
### Replacing the battery



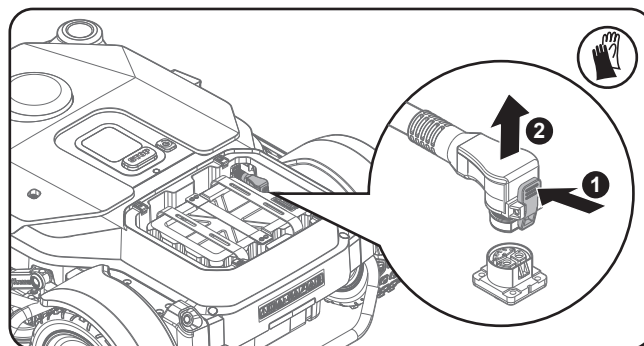
**WARNING: Power off before attempting any adjustment, replacement or repair. Before replacing the battery, turn your Mega Master OFF and put on protective gloves.**

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

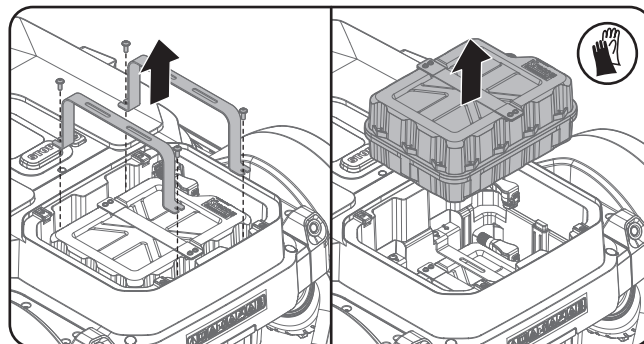
1. Remove the screws on the battery cover. Remove the battery cover.



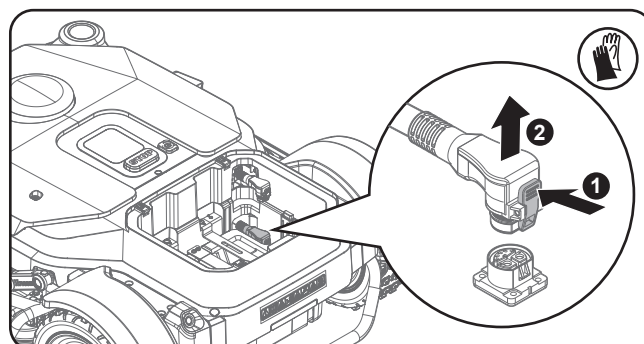
2. Hold down the bayonet button of the connector and then unplug the connector.



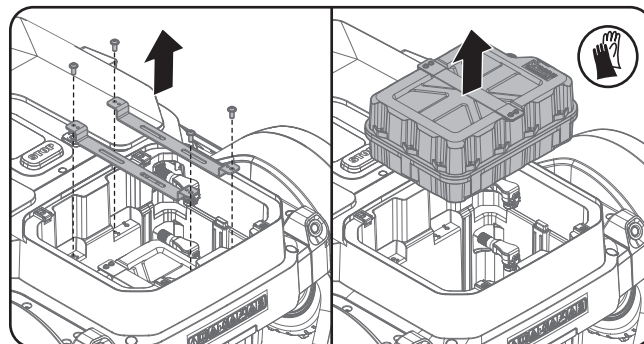
Remove the screws on the sheet metals and the sheet metals. Carefully remove the battery II.



3. Hold down the bayonet button of the connector and then unplug the connector.

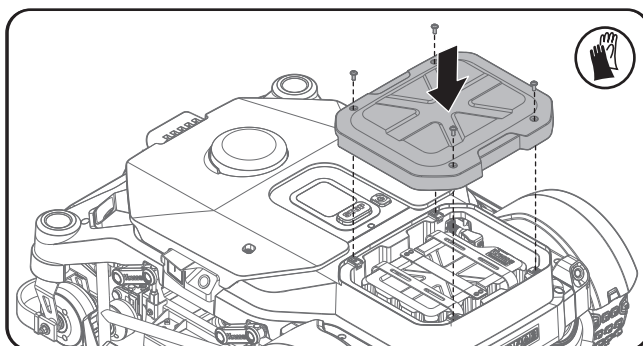
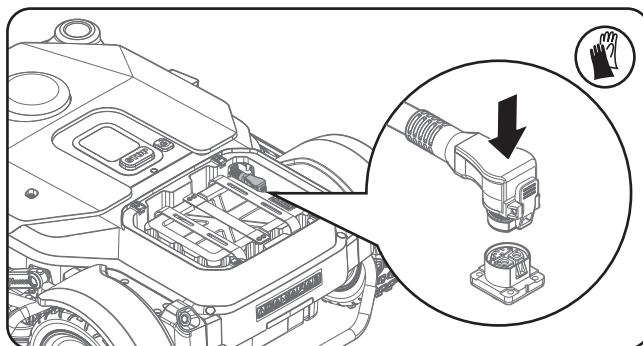
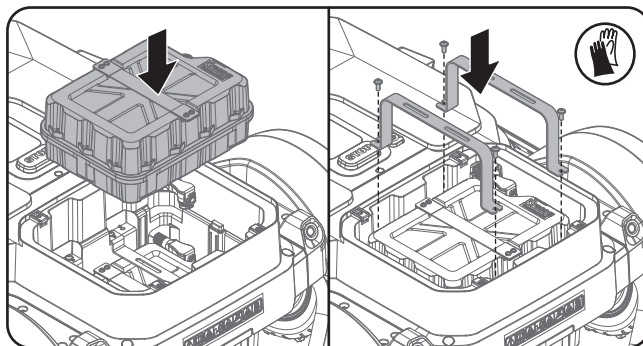
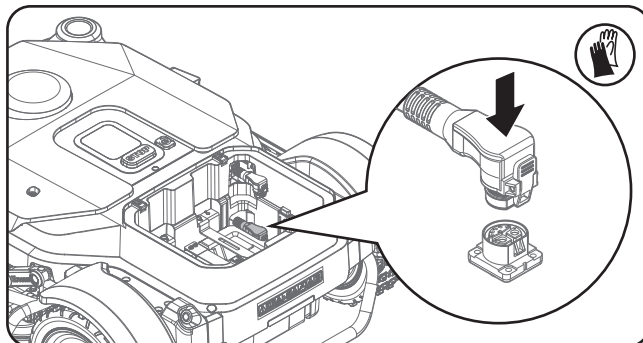
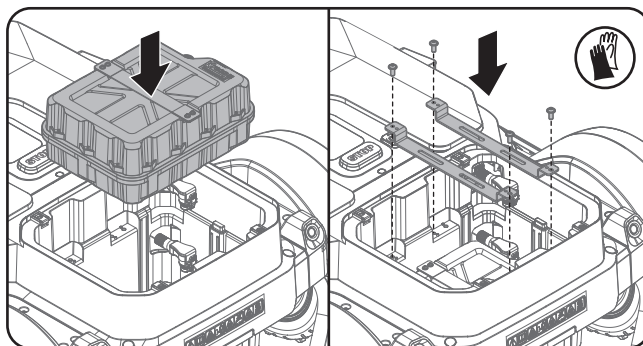


Remove the screws on the sheet metals and the sheet metals. Carefully remove the battery I.



4. Replace with new battery, reinsert the connectors (Make sure to hear a click after plugging in the connector to ensure it is in place) and refit the sheet metals. Place the battery cover back in its position and tighten the screws.

**NOTE: Strongly recommend a screwdriver with magnetic function.**



# Troubleshooting

If your mower does not work correctly, follow the trouble shooting guide below. If the fault persists, contact your dealer.

| LED | Error Name                       | Try the possible solutions:                                                                                                                                                                    |
|-----|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EE  | Unknown error                    | 1. Restart the mower.<br>2. If the issue persists, contact your dealer.                                                                                                                        |
| F1  | Rain delay                       | 1. Disable rain delay in the app if mowing is required.<br>2. Rain delay will turn off automatically after the set time (configurable via Kress Fleet).                                        |
| F2  | Low battery                      | Charge the mower until the battery level is sufficient.                                                                                                                                        |
| E01 | Outside boundary                 | 1. Move the mower inside the boundary, then press "START" + "OK".<br>2. If the issue occurs repeatedly at the same location, contact your dealer to adjust the boundary or set a no-go zone.   |
| E02 | Wheels motor error               | 1. Check and clean the drive wheels.<br>2. If the mower is stuck (e.g. in a hole), remove the obstruction or define a no-go zone.                                                              |
| E03 | Blade blocked                    | 1. Remove debris from blades and cutting discs.<br>2. Clear hard obstacles (e.g. stones, branches).<br>3. Reduce grass height or adjust cutting height if grass is too dense.                  |
| E04 | Continuous collision             | Check for obstacles and remove them.                                                                                                                                                           |
| E05 | Lifted                           | 1. Place the mower on a flat surface inside the boundary, then press "START" + "OK".<br>2. Clean OAS sensors if blocked, then restart.                                                         |
| E06 | Upside down                      | Place the mower upright on a flat surface inside the boundary, then press "START" + "OK".                                                                                                      |
| E07 | Battery charging error           | 1. Ensure the charging station is powered (green indicator on).<br>2. Install the charging station on a flat surface.<br>3. Reconnect the mower to the charging station and wait for charging. |
| E08 | Docking overtime                 | 1. Ensure a clear return path to the charging station.<br>2. Remove obstacles and press "Home" + "OK".                                                                                         |
| E09 | Map error                        | 1. Restart the mower.<br>2. Ensure the correct map is assigned in Kress Fleet.                                                                                                                 |
| E10 | HBI error                        | Restart the mower, then press "START" + "OK".                                                                                                                                                  |
| E11 | Battery temperature out of range | Wait until the battery temperature returns to normal, then restart the mower.                                                                                                                  |
| E12 | Camera blocked                   | 1. Remove any objects blocking the camera/ToF sensors.<br>2. Clean the lens with a soft dry cloth (use a slightly damp cloth if needed).                                                       |
| E13 | Camera error                     | 1. Restart the mower.<br>2. If the issue persists, contact your dealer.                                                                                                                        |
| E14 | Insufficient light               | Clean the camera and headlight, then press "START" + "OK".                                                                                                                                     |



|      |                                 |                                                                                                                                                                                                                                                                                                                                            |
|------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E15  | Blade height adjustment blocked | <ol style="list-style-type: none"> <li>1. Remove grass clippings or debris from the height adjustment module.</li> <li>2. Clear any obstruction under the mower.</li> </ol>                                                                                                                                                                |
| E16  | Transit fail                    | <ol style="list-style-type: none"> <li>1. Remove obstacles around the mower, then press "START" + "OK".</li> <li>2. Ensure the path width is <math>\geq 1.5</math> m. Adjust the map if necessary.</li> </ol>                                                                                                                              |
| E23  | Charging station docking error  | <ol style="list-style-type: none"> <li>1. Ensure the charging station is powered (green indicator on).</li> <li>2. Check contact between mower and charging station.</li> <li>3. Clean charging contacts.</li> <li>4. Reconnect the mower to the charging station.</li> <li>5. Check that the QR code on the station is intact.</li> </ol> |
| E25  | Heading calibration needed      | Move the mower to an open area inside the boundary, then press "START" + "OK".                                                                                                                                                                                                                                                             |
| E26  | Firmware upgrade error          | <ol style="list-style-type: none"> <li>1. Restart the mower and retry the update.</li> <li>2. Ensure sufficient battery level or charge the mower before updating.</li> </ol>                                                                                                                                                              |
| E27  | Headlight error                 | <ol style="list-style-type: none"> <li>1. Restart the mower.</li> <li>2. If the issue persists, contact your dealer.</li> </ol>                                                                                                                                                                                                            |
| E48  | Mower trapped                   | <ol style="list-style-type: none"> <li>1. Remove surrounding obstacles, then press "START" + "OK".</li> <li>2. Move the mower to an open area and restart.</li> </ol>                                                                                                                                                                      |
| E99  | Mower not activated             | <ol style="list-style-type: none"> <li>1. Ensure the mower is paired in Kress Fleet and has a stable connection (Wi-Fi/4G).</li> <li>2. Restart the mower.</li> <li>3. If the issue persists, contact your dealer.</li> </ol>                                                                                                              |
| LOCK | Anti-theft lock                 | <ol style="list-style-type: none"> <li>1. Return the mower to the working area.</li> <li>2. Unlock the mower using the app.</li> </ol>                                                                                                                                                                                                     |

# Environmental protection

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

## For battery tools:

Details regarding safe disposal of used batteries

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

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

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

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

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





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