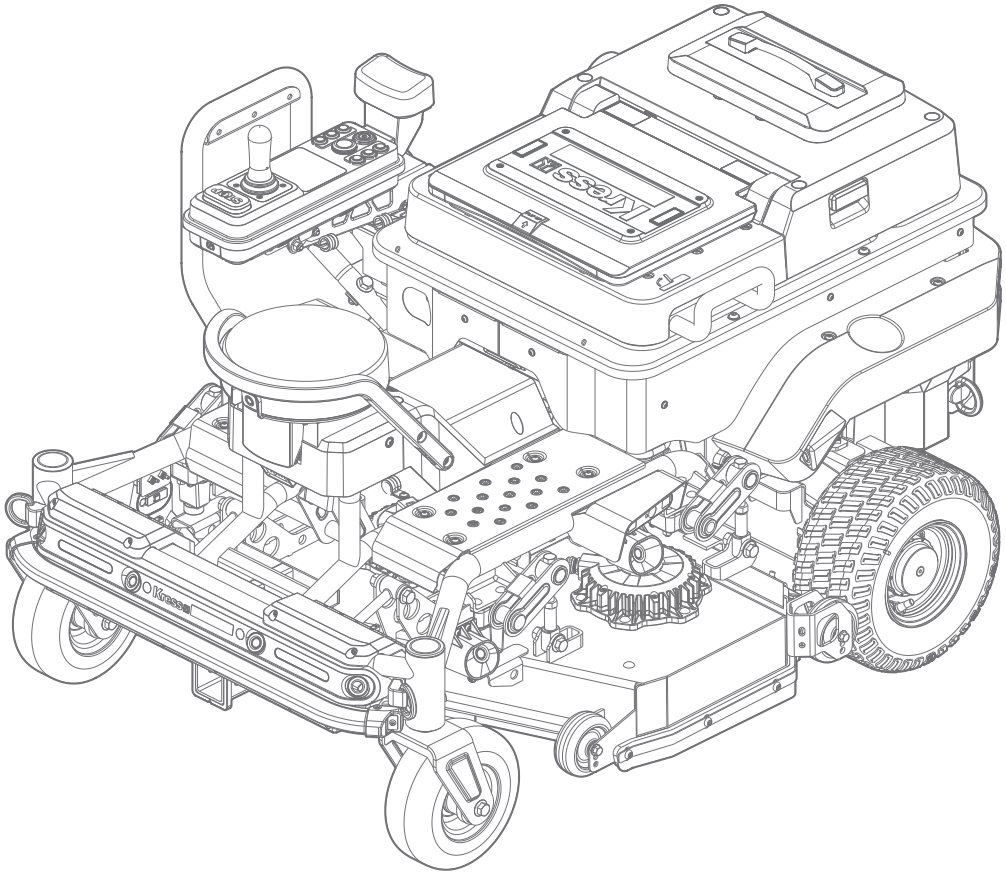
Kress

Commercial



Owner's Manual

Owner's Manual P04

KR800E KR800E.5

APP start guide

1. Sign up for the APP

To operate the mower, it is necessary to download the app and register an account. The app has two levels of access:

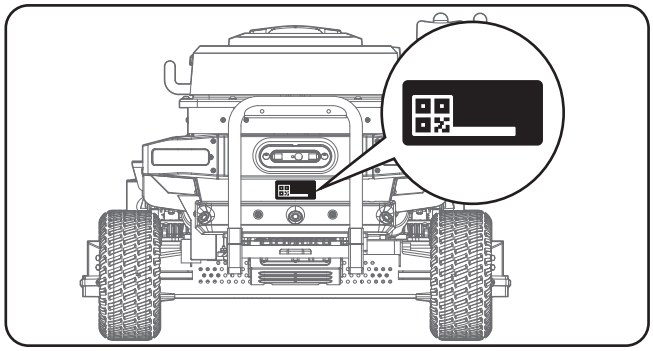
a) **The manager** who manages the mower can register an account directly by downloading the APP through the QR code or the link below.
https://app.kresscommercial.com/

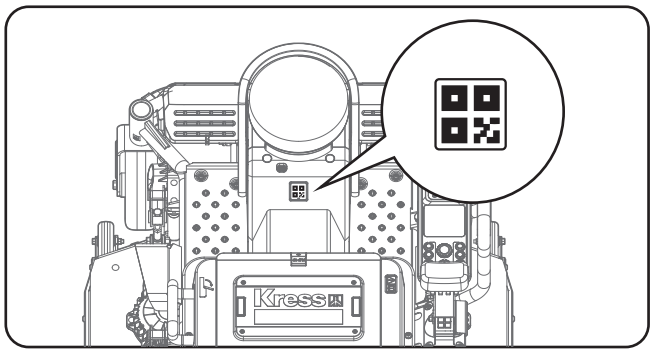
b) **The user/crew members** in the company who need to check in/out the mower and use it, also need to register an account. The user registration process is as follows:
1) The manager clicks on the invitation button on the web page or in the app.
2) The user's email will receive a registration link.
3) The user can register an account using this link.

2. Add the mower to the fleet

Follow the instructions on the app:
1) Scan the QR code or manually enter the serial number.
2) Power on and unlock the mower.

Once completed, the pairing will be successfully established.





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

Product safety

General Power Tool Safety Warnings

⚠ WARNING Read all safety warnings, instructions, illustrations and specifications provided with this power tool. *Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.*

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) Work area safety

a) Keep work area clean and well lit. *Cluttered or dark areas invite accidents.*

b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. *Power tools create sparks which may ignite the dust or fumes.*

c) Keep children and bystanders away while operating a power tool. *Distractions can cause you to lose control.*

2) Electrical safety

a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. *Unmodified plugs and matching outlets will reduce risk of electric shock.*

b) Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. *There is an increased risk of electric shock if your body is earthed or grounded.*

c) Do not operate the machine in rain or wet conditions. *This may increase the risk of electric shock.*

d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. *Damaged or entangled cords increase the risk of electric shock.*

e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. *Use of a cord suitable for outdoor use reduces the risk of electric shock.*

f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. *Use of an RCD reduces the risk of electric shock.*

3) Personal safety

a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. *A moment of inattention while operating power tools may result in serious personal injury.*

b) Use personal protective equipment. Always wear eye protection. *Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.*

c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. *Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.*

d) Remove any adjusting key or wrench before turning the power tool on. *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*

e) Do not overreach. Keep proper footing and balance at all times. *This enables better control of the power tool in unexpected situations.*

f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts. *Loose clothes, jewellery or long hair can be caught in moving parts.*

g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. *Use of dust collection can reduce dust-related hazards.*

h) Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. *A careless action can cause severe injury within a fraction of a second.*

4) Power tool use and care

a) Do not force the power tool. Use the correct power tool for your application. *The correct power tool will do the job better and safer at the rate for which it was designed.*

b) Do not use the power tool if the switch

does not turn it on and off. *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*

c) Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools. *Such preventive safety measures reduce the risk of starting the power tool accidentally.*

d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. *Power tools are dangerous in the hands of untrained users.*

e) Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. *Many accidents are caused by poorly maintained power tools.*

f) Keep cutting tools sharp and clean. *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*

g) Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. *Use of the power tool for operations different from those intended could result in a hazardous situation.*

h) Keep handles and grasping surfaces dry, clean and free from oil and grease. *Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.*

5) Battery tool use and care

a) Recharge only with the charger specified by the manufacturer. *A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.*

b) Use power tools only with specifically designated battery packs. *Use of any other battery packs may create a risk of injury and fire.*

c) 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.*

d) Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. *Liquid ejected from the battery may cause irritation or burns.*

e) Do not use a battery pack or tool that is damaged or modified. *Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.*

f) Do not expose a battery pack or tool to fire or excessive temperature. *Exposure to fire or temperature above 130 °C (265 °F) may cause explosion.*

g) Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions. *Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.*

6) Service

a) Have your power tool serviced by a qualified repair person using only identical replacement parts. *This will ensure that the safety of the power tool is maintained.*

b) Never service damaged battery packs. *Service of battery packs should only be performed by the manufacturer or authorized service providers.*

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. It is the owner's responsibility to make certain that the operators and mechanics read and understand this manual and all decals before operating this machine. It is also the owner's responsibility to make certain that

the operators and mechanics are qualified and physically able individuals, properly trained in the operation of this equipment. All operators and mechanics must become familiar with the safe operation of the equipment, operator controls and safety signs. Never let children or untrained persons operate or service this appliance. Local regulations may restrict the age of the operator. The owner/user can prevent and is responsible for accidents or injuries occurring to themselves, other people or property.

- Children should be supervised to ensure that they do not play with the appliance.
- This appliance contains lithium 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

IMPORTANT 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 automatic perimeter delineation system as instructed.
Create a cutting map based on the actual situation of the cutting area and maintain the cutting map regularly. Before each work cycle begins, the machine will first cut around the edge of the working area. The virtual boundary specifies the area where the machine is allowed to work. The machine's RTK module will sense when the machine approaches the virtual boundary. When the machine encounters an obstacle or approaches the virtual boundary, the product will choose a new direction. If it encounters a human or animal, the machine will stop, retreat to a safe distance, choose a new direction, and restart the blade.
b) Periodically inspect the area where the appliance is to be used and remove all stones, toys, sticks, wires, bones, and other foreign objects. Periodically inspect and clean the boundaries between grass and non-grass. Clearing boundaries helps the lawnmower to identify the working area.
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 robotic lawnmower shall not be operated without the guard in place.
f) WARNING! KEEP BYSTANDERS AWAY.
g) WARNING! KEEP HANDS AND FEET AWAY FROM THE BLADES.
h) WARNING! Do not use this machine on slopes greater than 15º.
i) Keeping the robotic lawnmower free from accumulation of grease, dirt, and other possibly combustible materials.
j) For use only with KAC840.1/KAC841 charger.
k) CAUTION! TO REDUCE THE RISK OF UNJURY OR ELECTRIC SHOCK DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
l) WARING! To Reduce Risk of Injury to Persons:
i) Do Not Recharge Batteries in a Confined or Unvented Area; and
ii) Do Not Smoke, Strike a Match, or Cause a Spark in the Vicinity of the Battery During Charging.
m) Always wear substantial footwear and long trousers while operating the machine.
n) When 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!

GENERAL OPERATION

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 robotic lawnmower.
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 robotic lawnmower. 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) Mow only when there is good visibility.
q) Use extreme caution when operating robotic lawnmower on slopes and near drops, ditches or embankments and when mowing in reverse.
r) WARNING! It is dangerous to use the robotic lawnmower during lightning.
s) Never leave a running machine unattended. Always maintain a safe distance from people and pets when mowing. Always stop machine if someone enters the area.
t) WARNING! When the robotic lawnmower is operating in automatic mowing mode, keep the seat backrest folded down. Do not ride on the machine.

IMPORTANT Safety warnings of robotic lawnmower at Ride-on mode

This cutting machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

1. Read, understand, and follow all instructions on the machine and in the manual(s) before starting.
2. Do not put hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.
3. Only allow responsible adults who are familiar with the instructions to operate this machine.
4. Clear the area of objects such as rocks, wire, toys, etc., which could be thrown by the blade(s).
5. Be sure the area is clear of bystanders before operating. Stop machine if anyone enters the area.
6. Never carry passengers.
7. Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
8. Never direct discharged material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blade(s) when crossing gravel surfaces.
9. Do not operate machine without the safety devices in place and working.
10. Slow down before turning.
11. Never leave a running machine unattended. Always turn robotic lawnmower OFF, stop the blade (s) and turn off the motor before dismounting.
12. Stop blade(s) when not mowing. Shut off the motor and wait for all parts to come to a complete stop before cleaning the machine.
13. Operate machine only in daylight or good artificial light.

14. Do not operate machine while under the influence of alcohol or drugs.
15. Watch for traffic when operating near or crossing roadways.
16. Use extra care when loading or unloading the machine into a trailer or truck.
17. Always wear eye protection when operating machine.
18. Data indicates operators age 60 years and above are involved in a large percentage of riding robotic lawnmower related injuries. These operators should evaluate their ability to operate the riding robotic lawnmower safely enough to protect themselves and others from serious injury.
19. Follow the manufacturer's recommendation for wheel weights or counterweights.
20. Do not spray under seat or electric components with water to clean unit.
21. Never put hands or feet under any part of the machine while it is running.
22. Always disengage the blades and wait for them to stop before crossing gravel drives, walks or roads.
23. Always keep clear of the mower's blades and attachments during their operation. Turn off blades when not mowing. Slow down before turning.
24. Never clear the discharge chute with the machine running. Turn robotic lawnmower OFF, turn the battery disconnect to the OFF position, and make sure the blades have stopped before cleaning.
25. Use a stick to clear a plugged discharge area. DO NOT use your hand!

SLOPE OPERATION

Slopes are a major factor related to loss of control and tip over accidents, which can result in severe injury or death. Operation on all slopes requires extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

1. mow up and down slopes, not across.
2. Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
3. Choose a low ground speed so you will not have to stop or shift while on a slope.
4. Do not mow on wet grass. Tires may lose traction.
5. Always maintain joystick control when going downhill. Do not release the controls or allow the robotic lawnmower to coast freely.
6. Avoid starting, stopping, or turning on a slope. If the tires lose traction, disengage the blade(s) and proceed slowly straight down the slope.
7. Keep all movement on slopes slow and gradual. Do not make sudden changes in speed or direction, which could cause the machine to roll over.
8. Use extra care while operating machine with grass catchers or other attachments; they can affect the stability of the machine. Do not use on steep slopes.
9. Do not try to stabilize the machine by putting your foot on the ground.
10. Do not mow near drop offs, ditches or embankments. The machine could suddenly roll over if a wheel goes over the edge or if the edge caves in.

CHILDREN

1. Keep children out of the mowing area and in the watchful care of a responsible adult other than the operator.
2. Be alert and turn the machine off if a child enters the area.
3. Before and while backing, look behind and down for small children.
4. Never carry children, even with the blade(s) shut off. They may fall off and be seriously injured or interfere with safe machine operation. Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the machine.
5. Never allow children to operate the machine.
6. Use extreme care when approaching blind corners, shrubs, trees, or other objects that may block your view of a child.

TOWING

1. Tow only with a machine that has a hitch designed for towing. Do not attach towed equipment except at the hitch point.
2. Follow the manufacturer's recommendation for weight limits for towed equipment and towing on slopes.
3. Never allow children or others in or on towed equipment.
4. On slopes, the weight of the towed equipment may cause loss of traction and loss of control.
5. Travel slowly and allow extra distance to stop.

Towing Specifications:
1. Continuous speed: 7.2 km/h

2. Alternatively: 10.8 km/h for distances under 500 meters

TOWING WITH THE MOWER

1. Tow only on flat, level ground. Do not tow on slopes or uneven surfaces.
2. Ensure the total weight of the towed equipment does not exceed 350 kg.
3. Attach towed equipment only at the designated hitch point.
4. Never allow passengers on the towed equipment.
5. Travel at low speed and allow extra distance for stopping.
6. Check the connection regularly to ensure safe towing.

Towing Specifications:
1. Maximum towed weight: 350 kg
2. Allowed terrain: Flat ground only

Additionally when the appliance is operating automatically

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

Maintenance and storage

⚠ WARNING! When the mower is turned upside down the power key must always be switched off.
The power key should be switched off during all work on the mower's underframe, such as cleaning or replacing the blades.

a) Keep all nuts, bolts and screws tight to be sure the appliance is in safe working condition.
b) Inspect the robotic lawnmower each week and replace worn or damaged parts for safety.
c) Check especially that the blades and blade disc are not damaged. Replace all blades and screws at the same time if necessary so that the rotating parts are balanced.
d) Ensure that only replacement cutting means of the right type are used.
e) Ensure that batteries are charged using the correct charger recommended by the manufacturer. Incorrect use may result in electric shock, overheating or leakage of corrosive liquid from the battery.
f) In the event of leakage of electrolyte flush with water/neutralizing agent, seek medical help if it comes into contact with the eyes etc.
g) Servicing of the appliance should be according to manufacturers' instructions.
h) Have your robotic lawnmower serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the robotic lawnmower is maintained.
i) Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
j) Do not charge robotic lawnmower in rain, or in wet locations.
k) Do not use robotic lawnmower in rain.
l) Store Idle robotic lawnmower Indoors – When not in use, robotic lawnmower should be stored in an indoor dry and locked-up place – out of reach of children.

Recommendation

a) 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.
b) Check and replace switch contacts frequently.
c) Inspection for frayed and deteriorated insulations.
d) Periodic checking of the motor and brakes, and other factors that through lack of service increase the risk of fire, electric shock or personal injury.

Residual risks

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

Transport

1. When transporting the robotic lawnmower over long distances, it is recommended to use a trailer with the original packaging.
2. The robotic lawnmower is a non-road product and cannot be used on motor vehicle lanes unless it is registered. Try to load the product on a truck to the starting point closest to the grass and avoid motor vehicle lanes.

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, operatons 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.

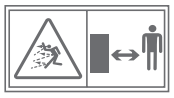
For mobile device

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.

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. Keep bystanders away.



WARNING – Operate the disabling device before working on or lifting the machine. Keep hands and feet away from the blades.



Double insulation



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



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 the operator's manual



Detachable supply unit

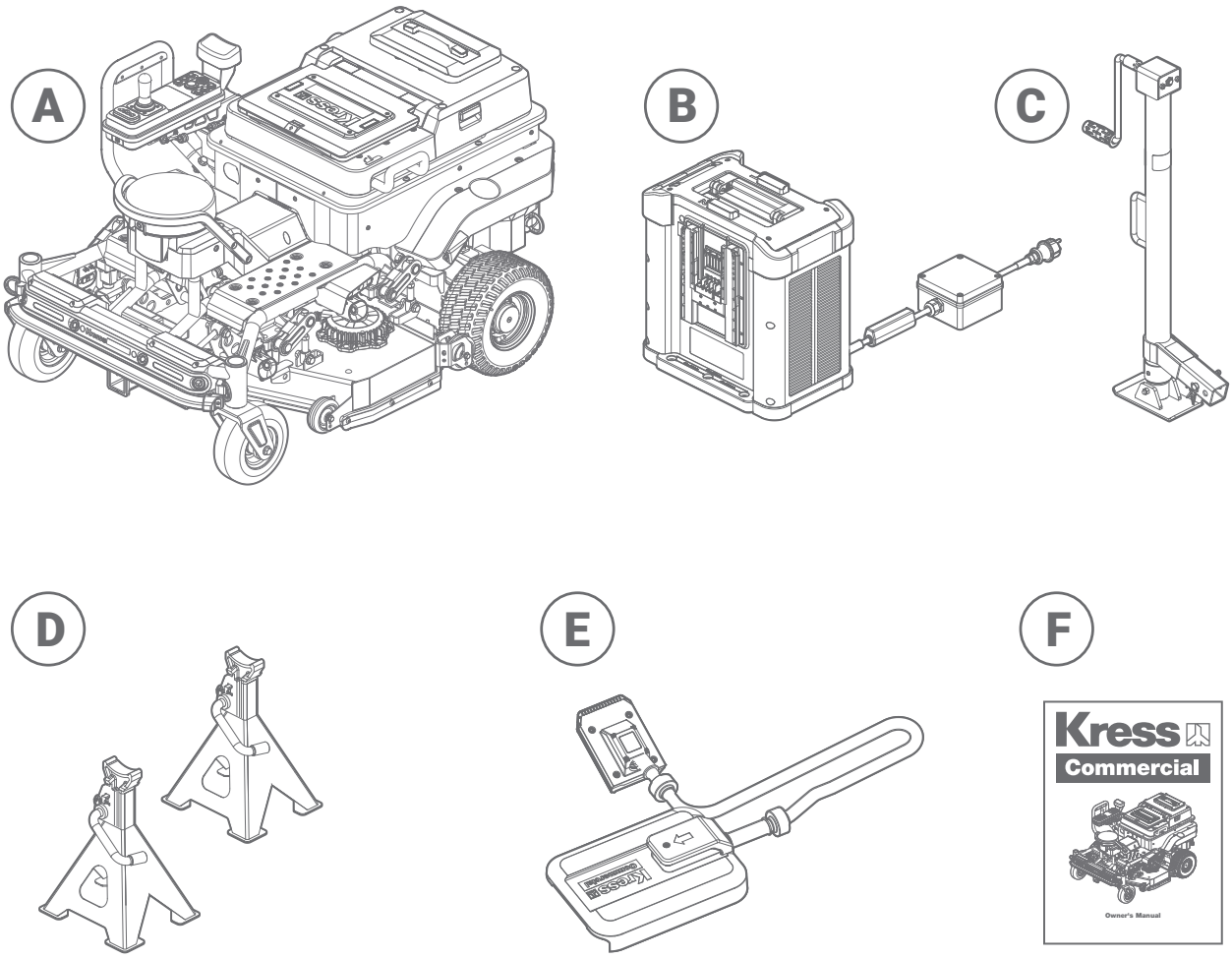


Prohibit disassembling the machine without authorization



Wear ear protection

Component list

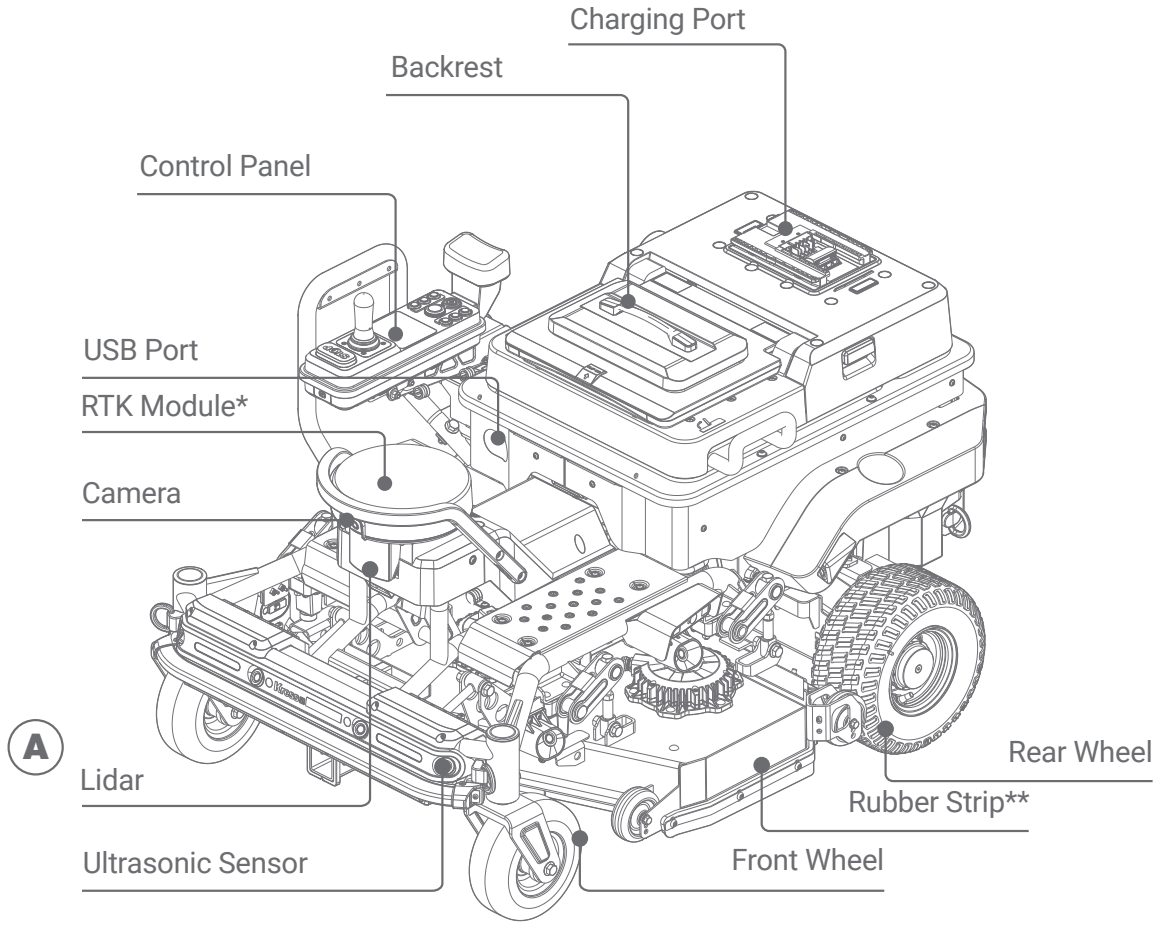


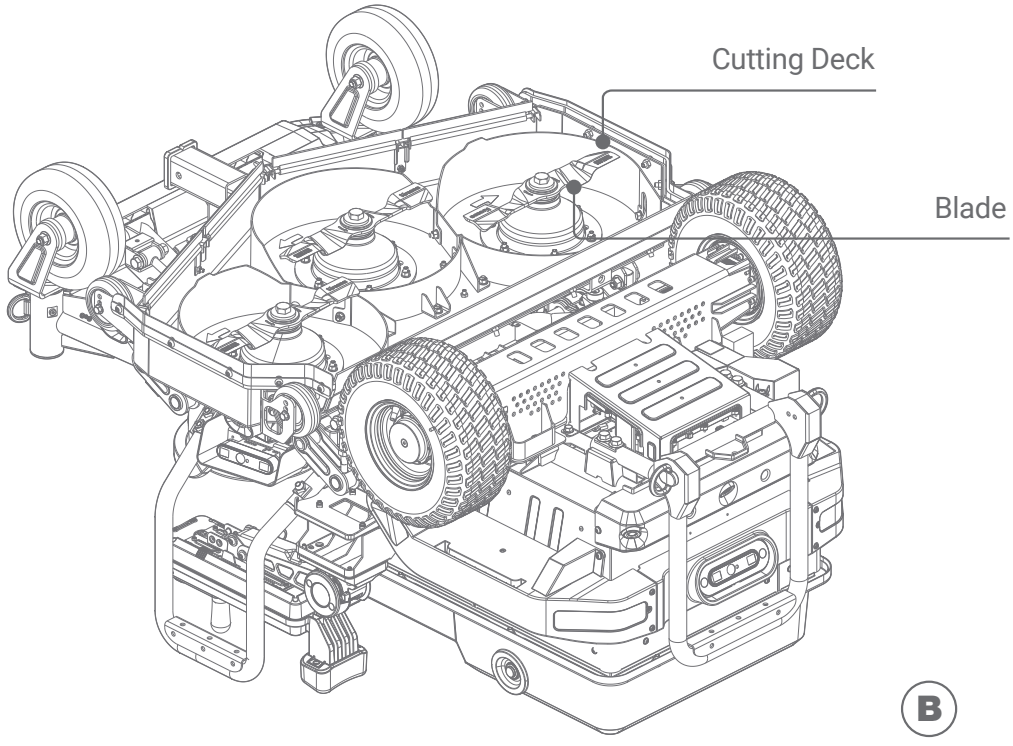
This picture is only for reference

A	Voyager 40"	D	Jack Stands
B	Charger	E	Charging Cable
C	Jack	F	Manuals

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

Getting to know Voyager 40''

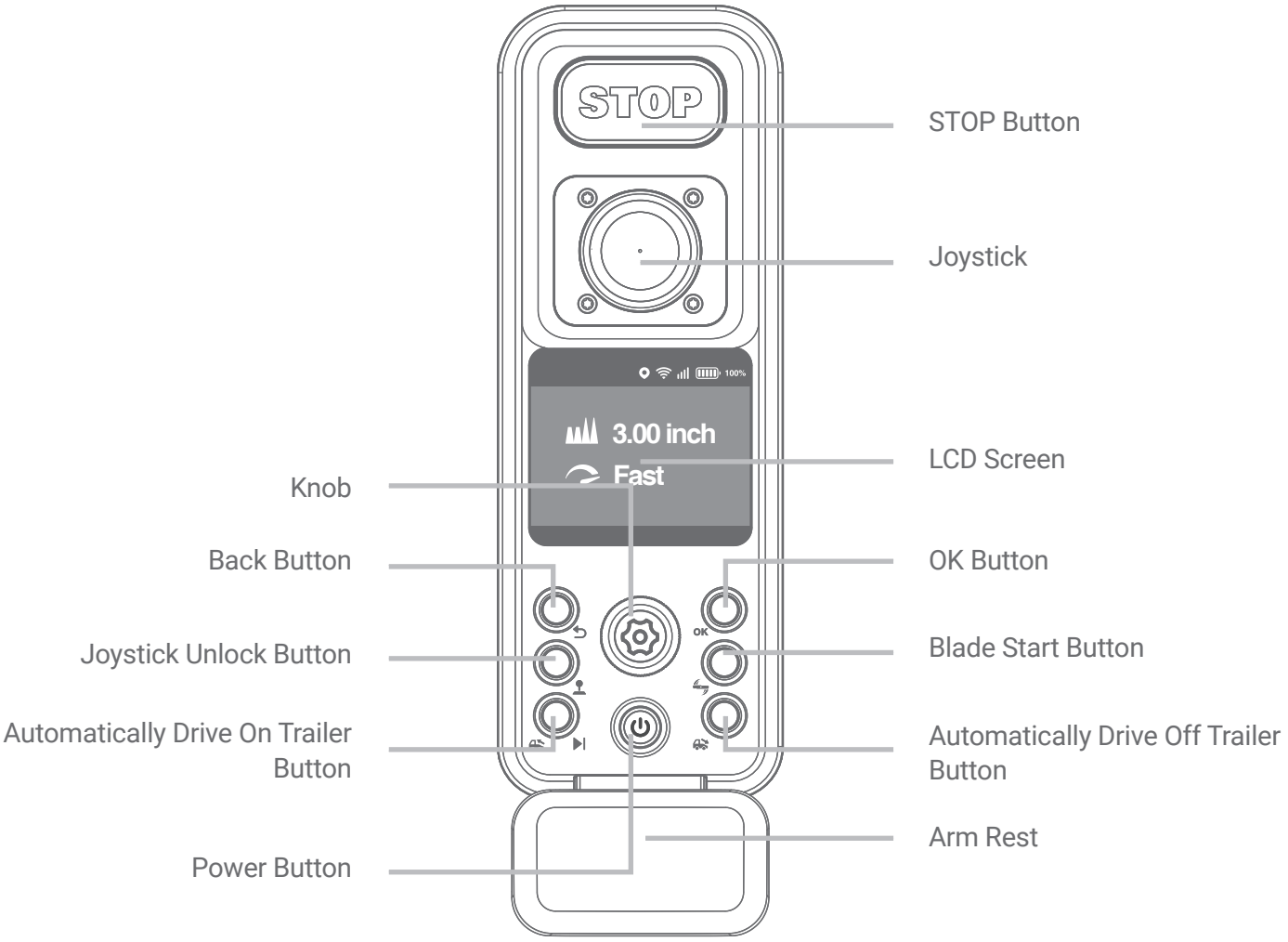




*Do not place any metal objects on the RTK module.
**The rubber strip must not be removed to prevent the risk of thrown objects.

This picture is only for reference

Parts and functions



Control

Power on	Press Power Button ⏻ for 1.5s
Power off	Press Power Button ⏻ for 1.5s
Menu page	Rotate the Knob to enter
Start mowing	Press Blade Start Button and then **OK**
Stop mowing	Press STOP Button
How to change pin code	Rotate the Knob to access the menu. Navigate to “Setting” and press **OK**. Then select “Password” to change the PIN. Use the Knob and **OK** to set and confirm the new PIN.

Sensor system & Data use

1. Sensor Configuration

Your Voyager 40" is equipped with multiple sensors that work together for safe, autonomous operation:

- **Front RGB camera**
- **Front LiDAR**
- **RTK positioning module**
- **13 Ultrasonic radar sensors around the chassis**
- **Stereo cameras (left, right, and rear)**

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

2. Data Collection & Processing

Sensor Type	Data Collected	Storage/Processing	Cloud Upload
Monocular & stereo cameras	2D images (photos)	Local processing + upload	Images uploaded
Stereo cameras & LiDAR	3D point clouds	Local only	Not uploaded
Ultrasonic & RTK sensors	Ranging and positioning	Local only	Not uploaded

- **2D images** (monocular and stereo cameras) are **encrypted and uploaded** to our cloud servers to improve obstacle recognition via periodic AI model training.
- **3D point clouds, ultrasonic, LiDAR, and RTK data are processed locally only and do not leave the device.**

3. Privacy, Security & Compliance

- **Minimal & Purpose-limited data:** Only necessary image data is uploaded to enhance recognition accuracy. No personal, location-based, or identity data is collected
- **Secure transfer & storage:** All uploads use **SSL/TLS encryption**, and images are anonymized and securely stored in accordance with industry-standard data protection measures .
- **User opt-in control:** Uploads are **optional**. You can enable or disable this feature in the app; local obstacle detection remains fully functional when uploads are off.

4. Safety & Compliance Warnings

- **Do not obstruct or modify any sensor (cameras, LiDAR, ultrasonic, RTK); tampering may impair operation and cause safety issues.**
- **Clean sensors regularly as described in the maintenance chapter to ensure optimal performance.**
- **If a sensor error occurs, the system will alert you—stop Voyager 40" immediately and contact support.**
- **For use in public or shared spaces, comply with local data protection regulations (e.g., GDPR) regarding video data capture.**

5. Privacy by Design (PbD)

Our system follows **"privacy by design"** principles — data privacy is integrated from the start:

1. **Data minimization:** We only collect essential data for operation improvement.
2. **End-to-end security:** All uploads are encrypted; sensitive data remains local and secure.
3. **Transparency & user control:** Full visibility of data practices and simple opt-in management.

Technical data

	KR800E KR800E.5
Rated voltage	45 V
Blade speed	3800-4600 RPM
Cutting width	1016 mm
Cutting height	30-125 mm
Cutting height positions	19
Ground speed	0-9 km/hour
Types of baffle & blade	Mulching Baffle (KA0409) + Mulching Blade (KA0008)/ High-lift mulching blade (KA0010) Discharge Baffle (KA0800) + Standard Blade (KA0009)/ High-lift discharge blade (KA0019)
Battery type	LI-ion
Battery model	KA3110
Run time	Up to 8 hours on single charge
Charging time approx.	8-10 hours
Charger model	KAC840.1/KAC841
Charger rating	Input: 220-240 V~50/60 Hz, 1800 W, Output: 60 V, 30 A
Machinery weight	350 kg
Dimensions (L * l * H)	1544*1094*835 mm
Waterproof	IPX4
APP	Kress Commercial
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	15° (26.8%)
Charging temperature range	-5 °C ~ 45 °C
Operation temperature range	-20 °C ~ 45 °C

Technical Data For 4G

Band	Tx(Mhz)	Rx(Mhz)	RF Output Power (Max)
GSM900(B8)	880-915	925-960	33dBm
DCS1800(B3)	1710-1785	1805-1880	30dBm
WCDMA B1	1920-1980	2110-2170	24dBm
WCDMA B8	880-915	925-960	24dBm
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	703-733	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 4G-GNSS

Global Navigation SatelliteSystem (GNSS):	BDS / GPS / GLONASS / Galileo
Nominal Frequency:	1164 - 1215 MHz 1215 - 1300 MHz 1559 - 1610 MHz

Noise data

A weighted sound pressure according to EN ISO 5395-1:2013+A1:2018, Annex F; EN ISO 3744:2010: L_{pA} = 87 dB (A), K_{pA}= 3 dB(A)
A weighted sound power according to EN ISO 5395-1:2013+A1:2018, Annex F; EN ISO 3744:2010: L_{wA} = 96.1 dB (A), K_{wA}= 3.54 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.

Vibration information

Hand-arm vibration according to EN ISO 5395-1:2013+A1:2018, Annex G: A_h = 1.457 m/s^2, uncertainty K= 1.50 m/s^2
whole body vibration according to EN ISO 5395-1:2013+A1:2018, Annex G: A_b = 0.094 m/s^2, uncertainty K= 1.50 m/s^2

WARNING: The vibration emission value during actual use of the power tool can differ from the declared value depending on the ways in which the tool is used dependant on the following examples and other variations on how the tool is used:
How the tool is used and the materials being cut.
The tool being in good condition and well maintained
Using the correct accessory for the tool and ensuring it is sharp and in good condition.
The tightness of the grip on the handles and if any anti vibration accessories are used.

And the tool is being used as intended by its design and these instructions.

This tool may cause hand-arm vibration syndrome and body vibration syndrome if its use is not adequately managed.

WARNING: To be accurate, an estimation of exposure level in the actual conditions of use should also take account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Helping to minimise your vibration exposure risk.
ALWAYS use sharp blades.
Maintain this tool in accordance with these instructions and keep well lubricated (where appropriate)
If the tool is to be used regularly then invest in anti-vibration accessories.
Plan your work schedule to spread any high vibration tool use across a number of days.

Accessories

	KR800E KR800E.5
Jack	1
Jack Stands	2
Charging Cable	1
Charger (KAC840.1/KAC841)	1

WARNING:
Please use the machine accessories listed in the manual. Other accessories may cause stones to be ejected during operation, resulting in mechanical damage, serious personal injury, etc.

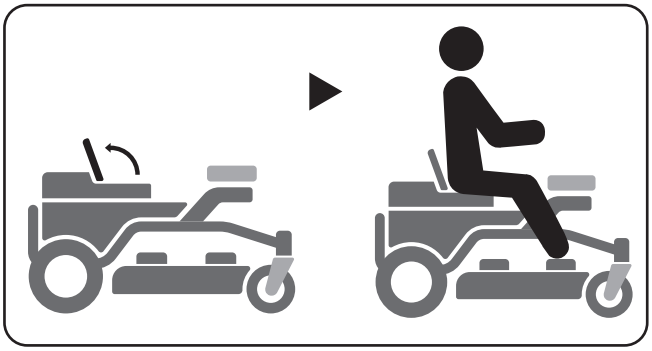
Intended Use

Voyager 40" is designed for maintaining lawns and grounds with minimal human intervention. Its intended use includes cutting grass on flat and sloping terrains, and navigating around obstacles such as trees, shrubs, and rocks. Voyager 40" can handle grass of varying lengths and thickness, making it suitable for commercial landscapes. It is an efficient and eco-friendly alternative to traditional lawn mowers, making it a valuable investment for businesses seeking to automate their lawn maintenance. With its advanced features and capabilities, Voyager 40" is a reliable and effective solution for commercial landscaping needs.

Riding mode

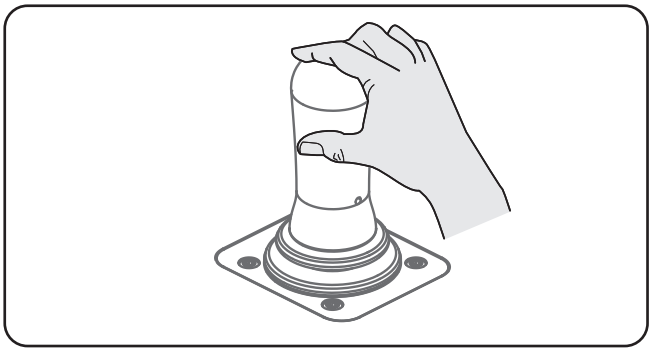
Your Voyager 40" features a Riding Mode for easier operation, allowing users to manually intervene when needed. In this mode, users can efficiently guide Voyager 40" to a desired location using a joystick. Riding Mode Instructions:

1. Open the backrest of the seat and sit on it.

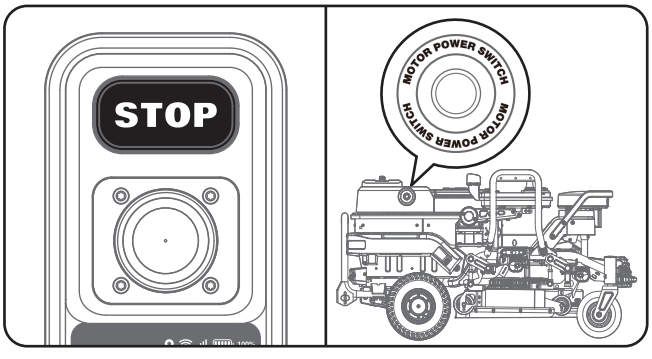


2. Press Joystick Unlock Button , and use the Knob and **OK** to enter the password.

3. After confirming the password, you can use the joystick to control Voyager 40"'s movement.



4. When in riding mode, there are three ways to stop Voyager 40":
   a) Release the joystick, and Voyager 40" will gradually slow down and come to a stop automatically.
   b) Press the STOP Button on the control panel to stop Voyager 40" immediately.
   c) If Voyager 40" is not responding, use the motor power switch on the side of Voyager 40" to bring it to an immediate stop. (Only in emergency situation)



5. To exit the riding mode, simply get off Voyager 40" and fold the backrest of the seat down.

Transportation

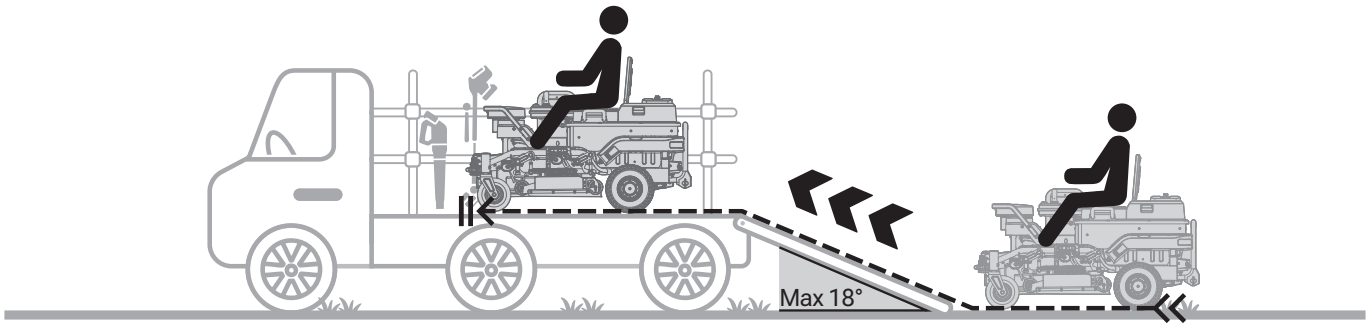
Manually drive on/off trailer

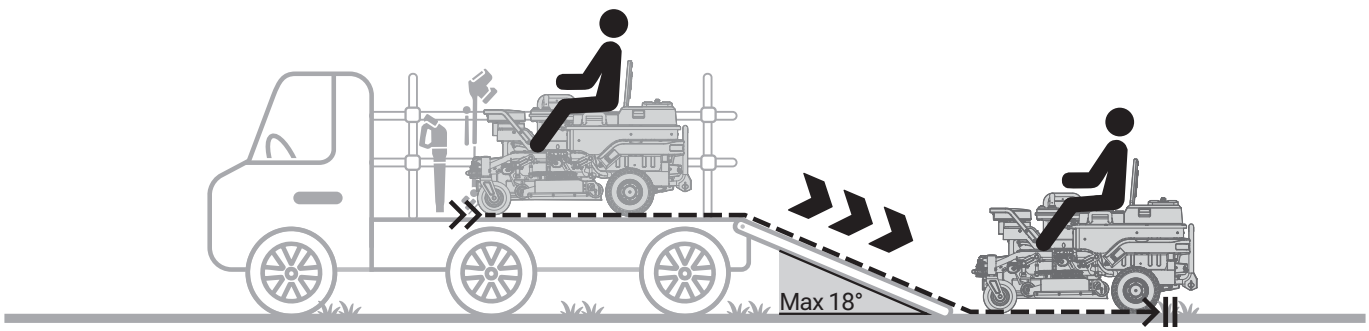
The operator can use the riding mode to manually drive Voyager 40" onto/off the truck/trailer. Below are the specific steps for manually get on truck/trailer:

1. Ensure that the truck/trailer is parked on a flat and level surface, with the parking brake engaged and the wheels chocked.
2. Position the loading ramps and secure them in place.
3. Enter the driving mode of Voyager 40".
4. Drive Voyager 40" slowly up the ramps, keeping it centered and aligned with the truck/trailer.
5. Please secure Voyager 40" using traps, chains, hooks, or ropes. There are designated holes at all four corners of Voyager 40" frame for tie-down purposes.
6. Double-check that all ramps and equipment are properly secured before driving.

NOTE:

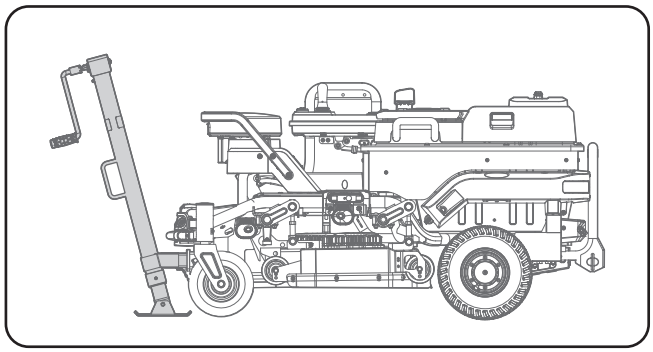
1. Do NOT load Voyager 40" on a trailer or truck using two separate ramps. Only use a single ramp that is at least one foot wider than the width of the rear wheels. Voyager 40" has a zero turning radius and the rear wheels could fall off the ramps, or Voyager 40" could tip over injuring the operator or bystanders.
2. The angle between the trailer ramp and the ground must not exceed 18°.
3. Do not stop on the ramp during loading or unloading.
4. Before unloading, ensure there is at least one mower length of flat space beyond the end of the ramp for safe exit.





Maintenance

Your Voyager 40" 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 Voyager 40" with a defective on/off switch. Switch off the machine before carrying out any service or maintenance.
Here's how to take care of your Voyager 40".

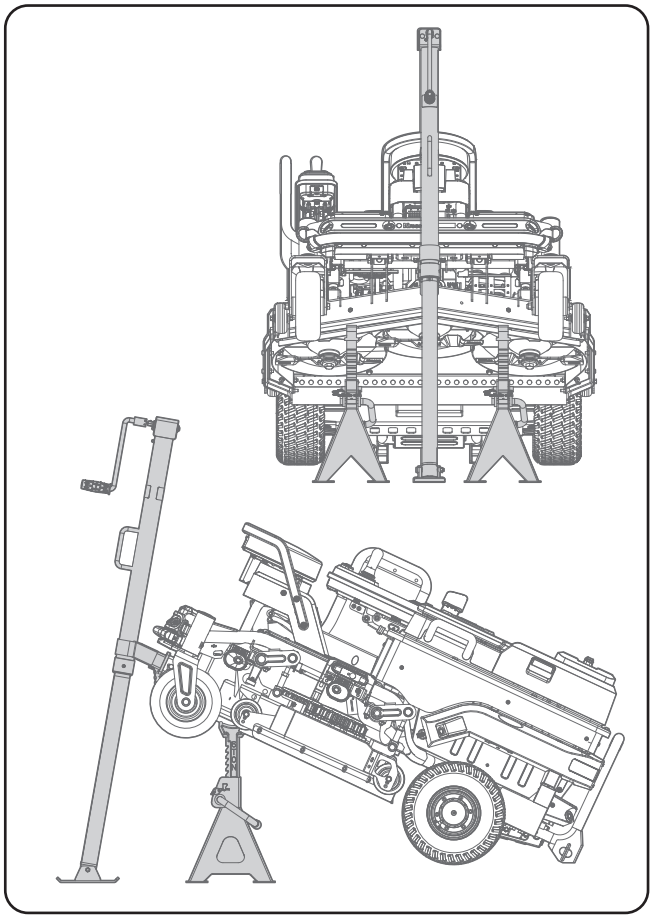


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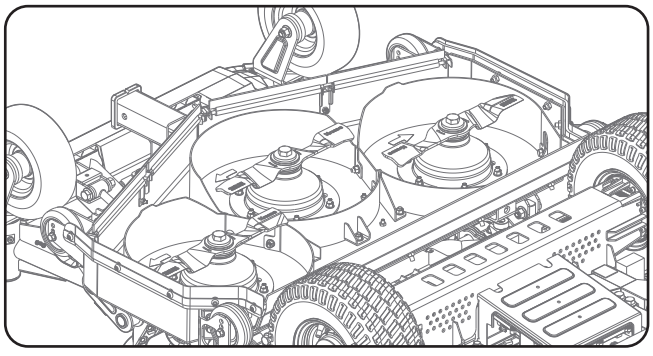
Blades changing

To ensure optimal cutting performance and safe operation, regularly inspect and replace Voyager 40"'s blades. Follow these steps to safely change the blades:

1. Park Voyager 40" on a flat, stable surface.
2. Turn off Voyager 40"'s power and ensure Voyager 40" is fully powered down.
3. Using the Jack:
   Insert the jack connector into Voyager 40"'s jack port, then insert the locking pin, and secure the latch.
   Rotate the handle to raise Voyager 40" to a sufficient height, ensuring the jack's support legs are firmly in contact with the ground before replacing the blade.
   WARNING: 1) Only use the jack on a solid, level surface to prevent it from tipping or sinking.
   2) Ensure the jack is positioned securely at the designated lifting point before operation.
   3) Do not exceed the maximum load capacity of the jack.
   4) Always use jack stands or appropriate supports in addition to the jack when working under Voyager 40".
   NOTE: 1. Study, understand, and follow all instructions before operating this device.
   2. Do not exceed rated capacity.
   3. Use only on hard, level surfaces, with less than 3 degrees of slope.
   4. Before using the support stand, secure the vehicle to prevent rolling.
   5) Do not attempt to lift or support Voyager 40" on uneven or sloped terrain.
   6) Rotate or pump the handle steadily; excessive force may cause the jack to fail.
4. Use a blade block or a piece of wood to hold the blade in place and prevent rotation.
5. Use a socket wrench to loosen and remove the blade bolt.
6. Remove the old blade, and check the spindle and mounting surface for any damage or debris.
7. Install the new blade, ensuring the cutting edge faces the correct direction as shown in the picture on the right.
8. Tighten the blade bolt to a torque of 120 Nm.
9. Lower Voyager 40" back to the ground and check for secure blade installation before resuming work.



NOTE: Remember to wear protective gear such as gloves and eye protection when handling blades to prevent

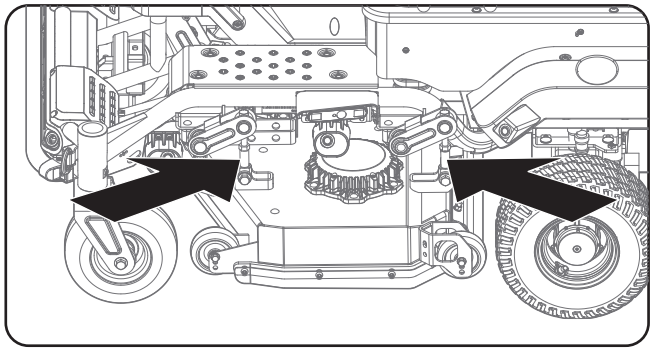


injury. Failure to do so could result in damage to Voyager 40" or personal injury.
After blade replacement, ensure all fasteners are tightened and the jack is fully removed before operating the equipment.

2

Lever joint maintenance

To ensure the smooth operation of the cutting system, regular maintenance of the lever joint is necessary. We recommend applying oil to the lever joint once a week to prevent rust and corrosion.



To perform maintenance, follow these steps:
1. Clean the lever joint thoroughly with a dry cloth.
2. Apply a few drops of oil to the joint marked in the above picture.
3. Move the lever back and forth to distribute the oil evenly.
4. Wipe off any excess oil with a clean cloth.

Regular maintenance of the lever joint will prolong the life of your Voyager 40" and keep it running smoothly.

3

Lidar, camera and ultrasonic sensor maintenance

Lidar, camera, and ultrasonic sensors are important components of Voyager 40", and regular maintenance is essential for their optimal functioning.

Clean the lens of the sensors regularly with a soft, dry cloth to remove any dirt or debris.

Regular maintenance of these sensors will help ensure that Voyager 40" continues to operate optimally. If you notice any issues with these sensors, please contact our customer support for assistance.

4

Tire maintenance

It is important to maintain proper tire pressure and inspect the tires regularly for any signs of damage or wear. Following these instructions will ensure optimal performance and extend the life of Voyager 40".
Service interval: Every 25 hours of operation

1. Maintain the rear tire pressure at 159kPa (23psi).
2. Inspect the tires for signs of wear or damage, such as cracks, bulges, or punctures. Replace any damaged tires immediately to prevent accidents.
3. Clean the tires regularly with water to remove any debris or grass clippings that may accumulate.
4. When storing Voyager 40" for an extended period, inflate the tires to the recommended pressure and park Voyager 40" on a flat, dry surface. This will help prevent flat spots from developing on the tires.

5

Keep Voyager 40" clean

Cleaning Voyager 40" is an important part of its maintenance to ensure its longevity and performance. Regular cleaning can also help prevent rust and corrosion, and ensure that debris buildup does not impede its functionality. Follow these simple steps to keep Voyager 40" clean and in good working condition:

1. Turn off Voyager 40".
2. Use a blower or hose to remove grass, debris, and dirt from the top and bottom of the deck and around the engine.
3. Use a damp cloth to clean the exterior of Voyager 40" and dry it with a towel.
4. Store Voyager 40" in a clean and dry place.

NOTE: Please do not use hard-bristled brushes to clean the sensors during mower maintenance. Pease do not use a high-pressure water gun to clean Voyager 40".

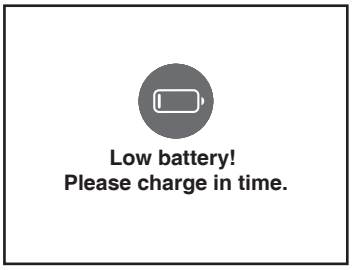
6

Battery Life

Low battery warning message

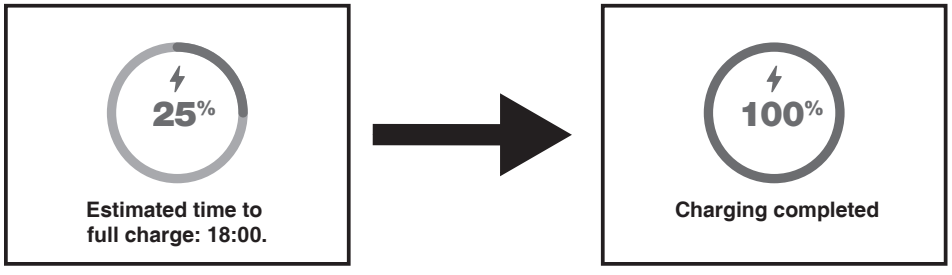
When the battery is lower than 10%, the screen shows the remaining cuttable area.
When the battery is lower than 5%, Voyager 40" will stop auto-mowing and show the low battery message.





How to charge Voyager 40"

To charge the battery, Voyager 40" should only be charged in non-riding mode, which means the user needs to fold down the seat back before charging. Please Charge the battery in an environment temperature range of -5 °C ~ 45 °C (23 °F ~ 113 °F). Here are more details for charging:
Connect the charger to Voyager 40" to charge the battery.
It is recommended to charge your Voyager 40" while it is stationary and the backrest of the seat is folded down.



During charging, the screen shows the charging process and the estimated time to complete charging.

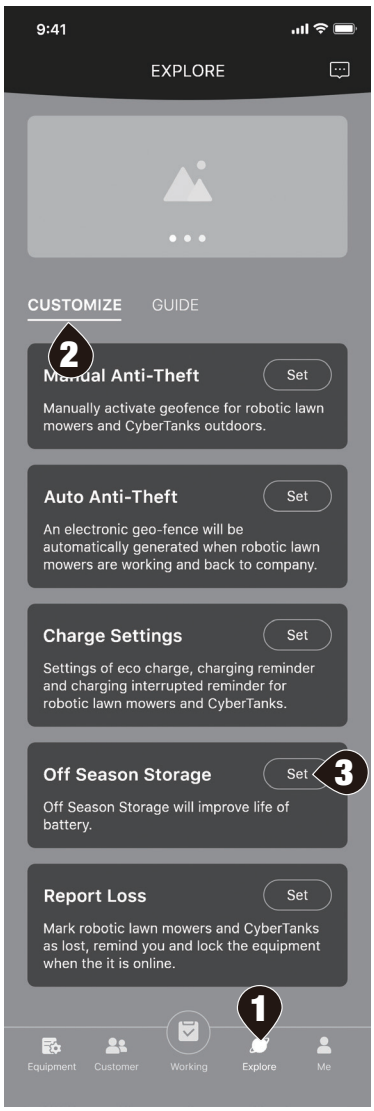
7

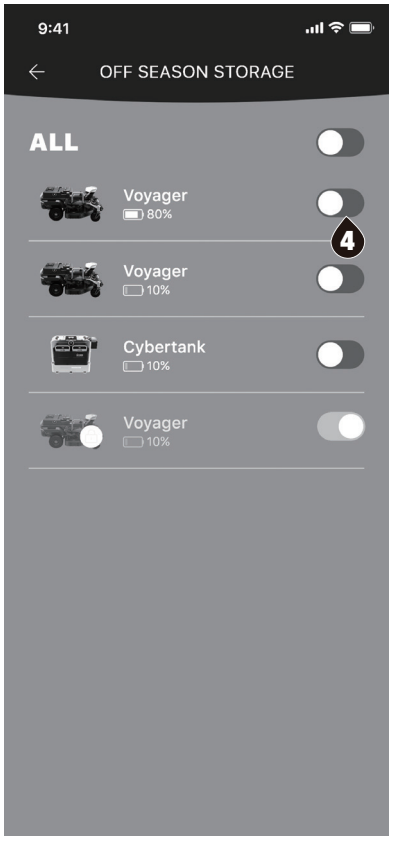
Voyager 40" storage

For short-term storage within a month, it is recommended to store Voyager 40" in an environment with a temperature range of -20 °C ~ 45 °C (-4 °F ~ 113 °F).
For long-term storage exceeding one month, it is advised to store Voyager 40" in an environment with a temperature range of 0 °C ~ 35 °C (32 °F ~ 95 °F).

To ensure the best performance and extend the lifespan of Voyager 40", please follow these storage guidelines:

1. Before storing Voyager 40", clean it thoroughly to remove any debris, grass, or dirt from Voyager 40"'s deck, blade, and wheels.
2. Store Voyager 40" in a cool, dry place away from direct sunlight, rain, or moisture. If possible, store it in a garage or shed.
3. Charge to 40% using off-season storage mode in the APP Explore page and store Voyager 40" properly.
4. If you are storing Voyager 40" for an extended period of time, it is recommended to remove the cutting blade and store it separately to prevent it from rusting or corroding.
5. Before using Voyager 40" again, check the tires and blades to ensure they are in good condition. If blades are dull or damaged, replace them before using Voyager 40" again.



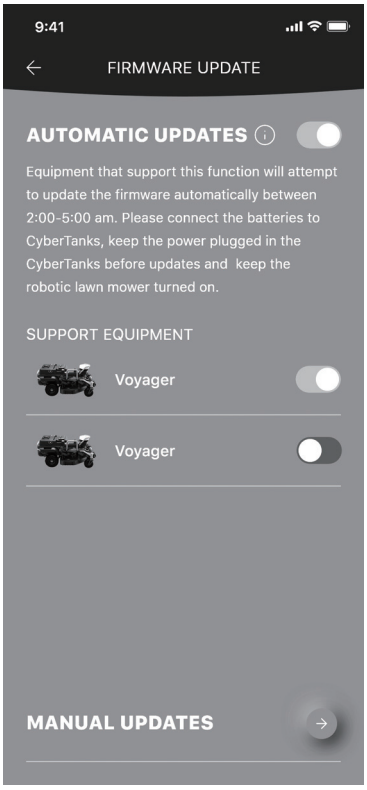


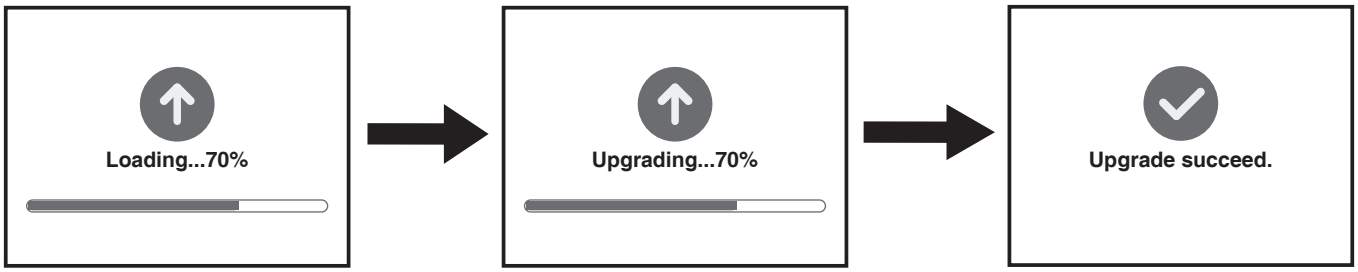
8

Software update

1. Enable Auto Update in the app to upgrade automatically when connected to Wi-Fi.

2. If Auto Update is off, the app will notify users of cloud updates, allowing manual remote upgrades with real-time progress tracking.





3. If IoT is unavailable, download the update package from the official website, save it to a USB drive, and insert it into Voyager 40"'s USB port. After about 1 minute, remove the USB when prompted on the screen and via voice guidance. Voyager 40" will update after USB removal.
4. After the update is complete, both Voyager 40" and the app will confirm a successful upgrade.

NOTE: Do not remove the battery pack or power off during the update.

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

Low Power Mode (UEC Mode)

Description:

UEC (Ultra Energy Conservation) Mode is a low power mode in which all non-essential modules are powered off. In this mode, the charging start voltage is 45.4 V, and the SOC (State of Charge) is displayed as 0 %.

How to Enable UEC Mode:

Manual Activation:

Press and hold both the top-left Back button and the bottom-right Automatically Drive Off Trailer Button for more than 10 seconds to enable UEC mode.
Note: This setting is only valid for the current power cycle. Upon shutdown and restart, UEC mode will be disabled by default.

Charging Behavior in UEC Mode:

Once UEC mode is enabled and the charging cable is connected, all power-consuming components will be powered off except for the power board, battery pack, and charger. The system will automatically shut down after charging is complete.

Exiting UEC Mode During Charging:

If the charging cable is disconnected during UEC charging, all system power loads will resume normal operation.

Declaration of conformity

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

On behalf of Positec declare that the product,
Description **Robotic Lawnmower**
Type **KR800E KR800E.5 (800-designation of machinery, representative of Robotic Lawnmower with ride-on mode) (Year, article number and month of serial number are placed on the back page. The complete serial number is clearly stated on the enclosure of lawnmower) with battery charger KAC840.1/KAC841**
Function **Cutting grass**
Serial number **It can be found on marking label**

Complies with the following Directives,
2006/42/EC, 2014/30/EU, 2014/35/EU, 2011/65/EU&(EU)2015/863, European Regulation 2024/1208, amending Directive 2000/14/EC, 2014/53/EU amended by (EU) 2022/30

The notified body involved
Name: TÜV SÜD Product Service GmbH(Notified body 0123)
Address: Ridlerstraße 65 • 80339 Munich • Germany
Certification No.: TPS-RED501144 i01

European Regulation 2024/1208, amending Directive 2000/14/EC
- Conformity Assessment Procedure as per **Annex VI**
- Measured Sound Power Level **96.1 dB (A)**
- Declared Guaranteed Sound Power Level **100 dB (A)**

The notified body involved
Name: TÜV Rheinland LGA Products GmbH (Notified body 0197)
Address: Tillystraße 2 - 90431 Nürnberg

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+A16:2023, EN IEC 62311:2020, EN IEC 55014-1:2021, EN IEC 55014-2:2021, EN IEC 61000-3-2:2019+A1:2021+A2:2024, EN 61000-3-3:2013+A1:2019+A2:2021+AC:2022, EN ISO 5395-1:2013+A1:2018, EN ISO 5395-3:2013+A1:2017+A2:2018, EN 18031-1:2024, EN 18031-2:2024, EN 62841-1:2015+AC:2015+A11:2022
For Bluetooth & Wi-Fi module (2.4G): EN 301 489-1 V2.2.3, EN 301 489-17 V3.3.1, EN 300 328 V2.2.2
For 4G+GPS module: EN 301 489-1 V2.2.3, EN 301 489-19 V2.2.1, EN 301 489-52 V1.3.1, EN 301 511 V12.5.1, EN 301 908-1 V15.2.1, EN 301 908-13 V13.2.1, EN 303 413 V1.2.1, EN 301 908-2 V13.1.1, EN 50665:2017
For battery 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 301 489-1 V2.2.3, EN 301 489-17 V3.3.1, EN 300 328 V2.2.2, EN 62479:2010, EN 50663:2017, 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 3744:2010
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



2025/12/05
Allen Ding
Deputy Chief Engineer, Testing & Certification
authorized to issue the declaration of conformity on behalf of the manufacturer
Positec Technology (China) Co., Ltd.
18, Dongwang Road, Suzhou Industrial Park, Jiangsu 215123, P. R. China

Declaration of conformity

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

On behalf of Positec declare that the product
Description **Battery pack**
Type **KA3110**
Function **Provide energy for power tools, garden tools and similar products**
Serial number **It can be found on marking label**

Complies with the following Regulation and Directives,
(EU) 2023/1542, 2011/65/EU & (EU) 2015/863

Standards conform to,
EN 62133-2:2017, EN 62133-2:2017/A1:2021
EN IEC 63000:2018

The person authorized to compile the technical file,
Name **Marcel Filz**
Address **Positec Germany GmbH**
Postfach 680194, 50704 Cologne, Germany



CE

2025/12/05
Allen Ding
Deputy Chief Engineer, Testing & Certification
authorized to issue the declaration of conformity
on behalf of the manufacturer
Positec Technology (China) Co., Ltd.
18, Dongwang Road, Suzhou Industrial
Park, Jiangsu 215123, P. R. China

Declaration of conformity

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

On behalf of Positec declare that the product
Description **Robotic Lawnmower**
Type **KR800E KR800E.5 (800-designation of machinery, representative of Robotic Lawnmower with ride-on mode) (Year, article number and month of serial number are placed on the back page. The complete serial number is clearly stated on the enclosure of lawnmower) with battery charger KAC840.1/KAC841**
Function **Cutting grass**
Serial number **It can be found on marking label**

Complies with the following Regulations:
Supply of Machinery (Safety) Regulations 2008
Radio Equipment Regulations 2017
Electrical Equipment (Safety) Regulations 2016
Electromagnetic Compatibility Regulations 2016
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations

The notified body involved
Name: TÜV SÜD Product Service GmbH(Notified body 0123)
Address: Ridlerstraße 65 • 80339 Munich • Germany
Certification No.: TPS-RED501144 i01

Noise Emission in the Environment by Equipment for Use Outdoors Regulations
- Conformity Assessment Procedure as per **SCHEDULE 9**
- Measured Sound Power Level **96.1 dB (A)**
- Declared Guaranteed Sound Power Level **100 dB (A)**

The notified body involved
Name: TÜV Rheinland LGA Products GmbH (Notified body 0197)
Address: Tillystraße 2 - 90431 Nürnberg

Standards conform to,
For Lawn mower: BS EN 50636-2-107:2015+A1:2018+A2:2020+A3:2021, BS EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A2:2019+A14:2019+A15:2021+A16:2023, BS EN IEC 62311:2020, BS EN IEC 55014-1:2021, BS EN IEC 55014-2:2021, BS EN IEC 61000-3-2:2019+A1:2021+A2:2024, BS EN 61000-3-3:2013+A1:2019+A2:2021+AC:2022, BS EN ISO 5395-1:2013+A1:2018, BS EN ISO 5395-3:2013+A1:2017+A2:2018, BS EN 18031-1:2024, BS EN 18031-2:2024, BS EN 62841-1:2015+AC:2015+A11:2022
For Bluetooth & Wi-Fi module (2.4G): BS EN 301 489-1 V2.2.3, BS EN 301 489-17 V3.3.1, BS EN 300 328 V2.2.2
For 4G+GPS module: BS EN 301 489-1 V2.2.3, BS EN 301 489-19 V2.2.1, BS EN 301 489-52 V1.3.1, BS EN 301 511 V12.5.1, BS EN 301 908-1 V15.2.1, BS EN 301 908-13 V13.2.1, BS EN 303 413 V1.2.1, BS EN 301 908-2 V13.1.1, BS EN 50665:2017
For battery charger: BS EN IEC 55014-1:2021, BS EN IEC 55014-2:2021, BS EN IEC 61000-3-2:2019+A1:2021, BS EN 61000-3-3:2013+A1:2019+A2:2021, BS EN 301 489-1 V2.2.3, BS EN 301 489-17 V3.3.1, BS EN 300 328 V2.2.2, BS EN 62479:2010, BS EN 50663:2017, BS EN IEC 60335-2-29:2021+A1:2021, BS EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A2:2019+A14:2019+A15:2021, BS EN 62233:2008
For Noise: BS EN ISO 3744:2010
For RoHS: BS EN IEC 63000:2018

The person authorized to compile the technical file,
Name Jim Kirkwood
Address Positec (UK & Ireland) Ltd PO BOX 6242, Newbury, RG14 9LT, UK



UK CA

2025/12/05
Allen Ding
Deputy Chief Engineer, Testing & Certification
authorized to issue the declaration of conformity on behalf of the manufacturer
Positec Technology (China) Co., Ltd.
18, Dongwang Road, Suzhou Industrial Park, Jiangsu 215123, P. R. China

Declaration of conformity

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

On behalf of Positec declare that the product
Description **Battery pack**
Type **KA3110**
Function **Provide energy for power tools, garden tools and similar products**
Serial number **It can be found on marking label**

Complies with the following Regulations:
The Batteries and Accumulators (Placing on the Market) Regulations 2008 (as amended) and the Waste Batteries and Accumulators Regulations 2009 (as amended)
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

Standards conform to,
BS EN 62133-2:2017, BS EN 62133-2:2017/A1:2021
BS EN IEC 63000:2018

The person authorized to compile the technical file,
Name Jim Kirkwood
Address Positec (UK & Ireland) Ltd
PO BOX 6242, Newbury, RG14 9LT, UK



UK CA

2025/12/05
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