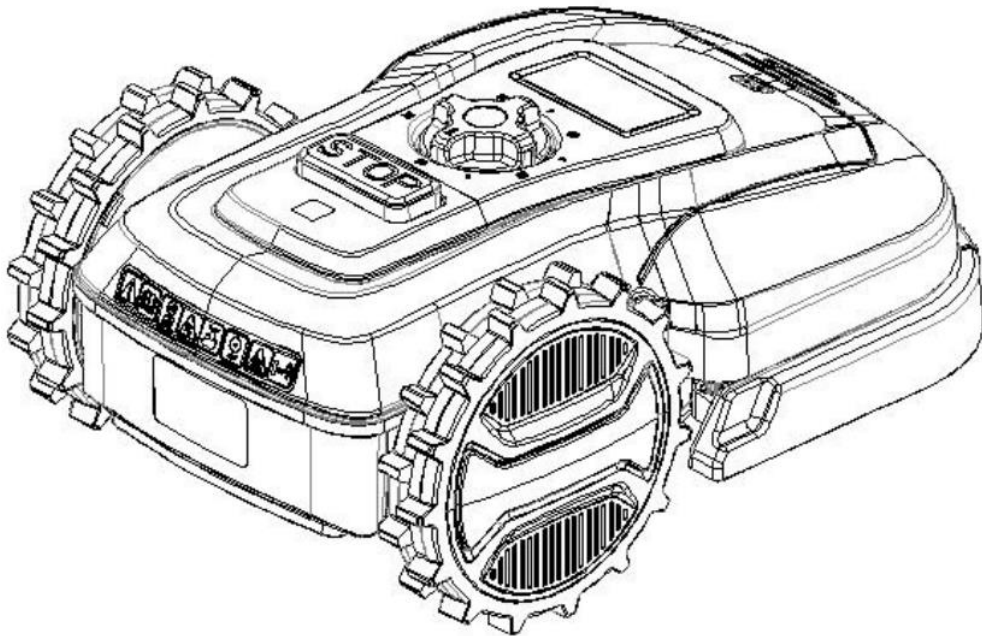




Chomper

ROBOTIC LAWNMOWER



Model No: Chomper-E504

⚠ WARNING

Read the User Manual carefully before use.
Make sure you understand all the instructions and safety warnings.

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About This Product

Thank you for choosing the Chomper Robotic lawnmower.

This product independently mows the lawn in a random pattern before returning to its charging station to charge the battery by navigating along the boundary wire.

The product is lightweight and works on the lawn without damaging the lawn.

Collection of grass is not necessary because the fine grass clippings can serve as a natural fertilizer.

Any other improper use can cause danger even personal injury.

WARNING! Any other improper use can cause danger even personal injury.

Safety Warnings

Important

READ CAREFULLY BEFORE USE. KEEP FOR FUTURE REFERENCE.

- Be sure to install and operate the mower according to the instructions.
- The mower has many built-in safety sensors, but safety risks still exist. Inform your family and neighbours about the risks for accidents or hazards.
- When using the mower on a public lawn, or when your lawn is open to your neighbour or street, protect or fence the lawn, or put up a warning sign around the working area that says:
WARNING! Automatic lawnmower! Keep away from the machine! Supervise children!
- DO NOT repair the mower by yourself. Repair may interfere with the mower operations, resulting in serious injury and damage.
- Please contact a qualified specialist and use the approved parts and accessories.



Never allow children, persons with reduced physical, sensory, or mental capabilities or lack of experience and knowledge or people unfamiliar with these instructions to use the machine. Local regulations may restrict the age of the operator.

Before Mowing:

- Before each mowing session, check that all parts of the mower can function normally.
- For the best mowing results, it is recommended to mow in dry weather. Mowing in the rain can make the grass stick on the product and the mower may slip. DO NOT mow in bad weather, such as heavy rain, thunderstorm, or snow.
- Periodically inspect the area where the machine is to be used and remove all stones, sticks, wires, bones, and other foreign objects. The Limited Warranty does not cover damages caused by objects left on the lawn.
- To avoid possible damage, keep the operating mower at least 1 m (3 feet) away from sprinkler heads. The mower and the sprinkler should NOT work simultaneously. Time the mower so that it works at a different time from the sprinkler.
- NEVER allow children to touch the power supply unit, charging station, blades, the battery compartment, or any parts with gaps such as the wheels.
- Keep away from the rotating blades! DO NOT put hands or feet under or near the rotating blades.
- Watch out for throwing objects! Keep a safe distance from the mower when operating.
- DO NOT leave the machine to operate unattended if you know that there are pets, children or people in the vicinity.
- DO NOT overreach. Always keep your balance and be sure of the footing on slopes. Walk, never run while operating the machine or its peripherals.
- Read instructions on when, where, and how to inspect the machine and its peripherals, connecting cords, and extension cords for signs of damage or aging and, if permitted, how to make repairs.
- A note not to connect or touch a damaged connection line to the power supply before it is disconnected from the power supply, because damaged connection lines can lead to contact with active parts

- Connect the machine and/or its peripheral devices only to supply circuits protected by a residual current device with a tripping current of not more than 30 mA
- The device must not be used at altitudes higher than 2000 m.

WARNING! If the mower makes an abnormal sound, abnormally vibrates, or signals an alarm, press the STOP button immediately.

WARNING! DO NOT touch moving dangerous parts before the mower is powered off.

WARNING! Do not touch moving dangerous parts before they have come to a complete standstill.

Warning! Ensure that you always wear sturdy shoes and long trousers when operating the machine.

Warning!

Warning turn off the power to the machine before lifting it or tested, cleaning or carrying out repair work. If the machine vibrates violently cut the power and seek professional inspection.

Symbols and decals

Please study the symbols on the product and labels carefully and understand their meaning.



⚠ WARNING-Read instruction manual before operating the machine.



⚠ WARNING-Do not touch rotating blade.



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



⚠ WARNING-Do not ride on the machine.



⚠ Remove (or operate) the disabling device before working on or lifting the machine*.
*Make sure the mower is locked by the PIN code before lifting or operating.



⚠ WARNING-It is not permitted to dispose of this product as normal household waste. Ensure that the product is recycled in accordance with local legal requirements.



This product conforms to the applicable EC Directives.



This product conforms to the regulations of Restriction of Hazardous Substances.



Before charging, read the instructions.



Class II appliance



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



SMPS (Switch mode power supply unit)

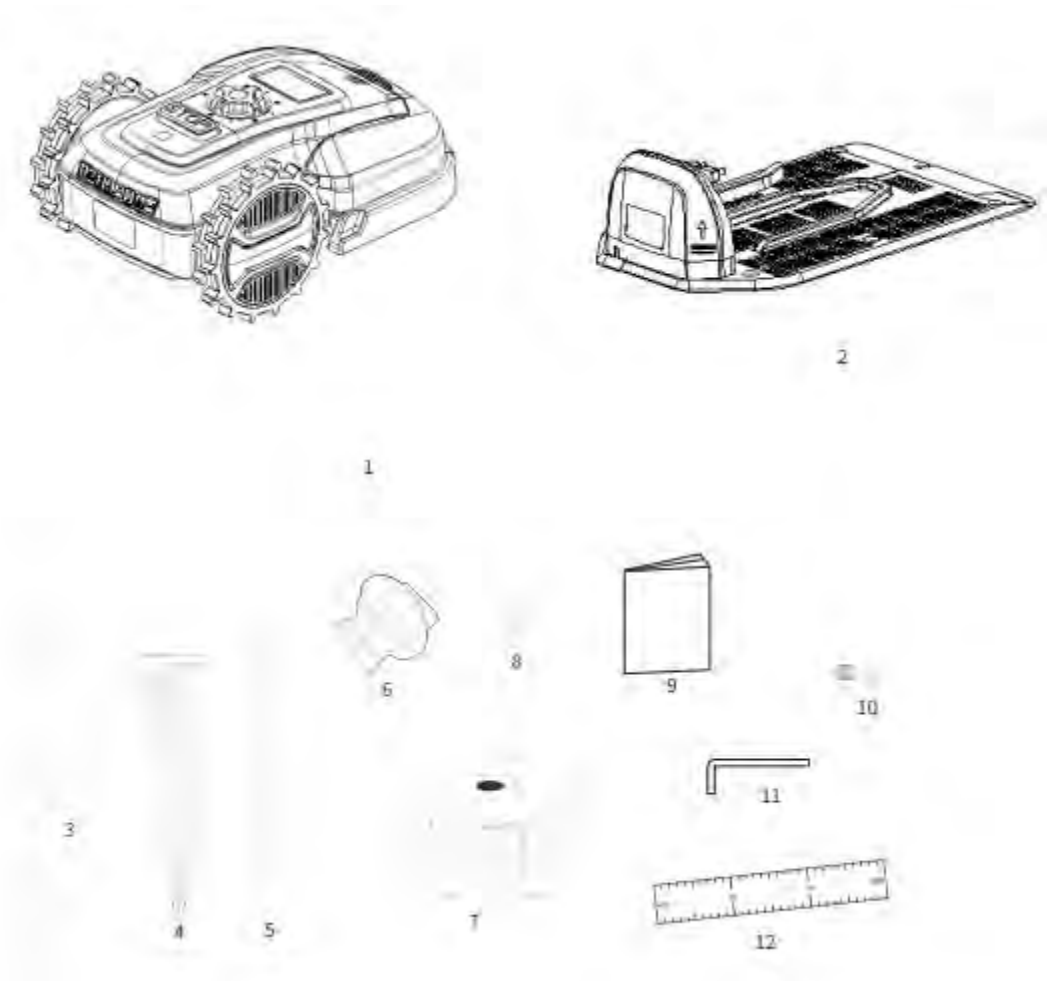


Direct current



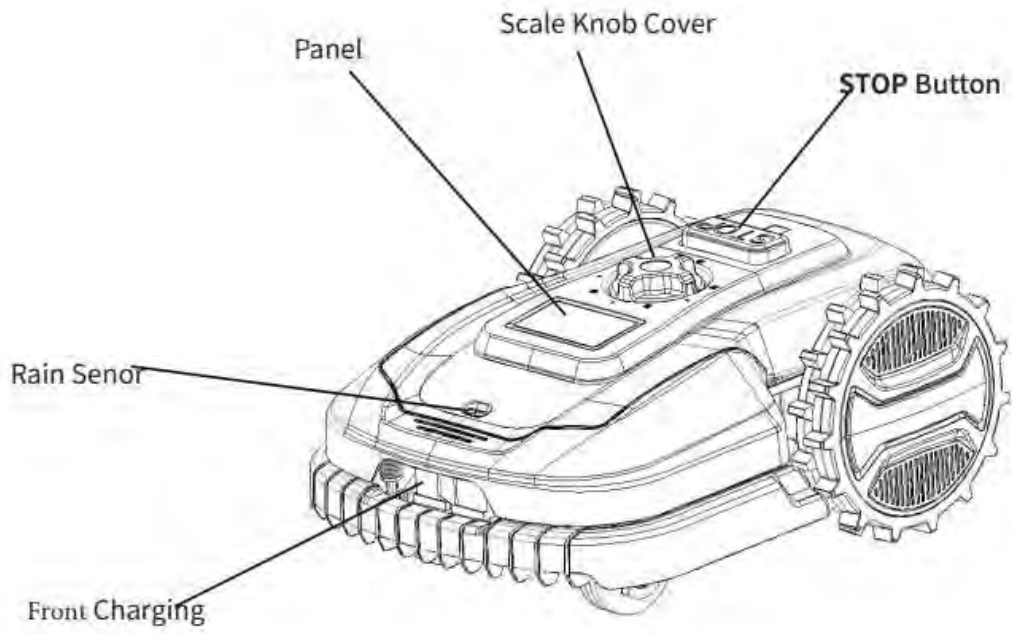
Alternating current

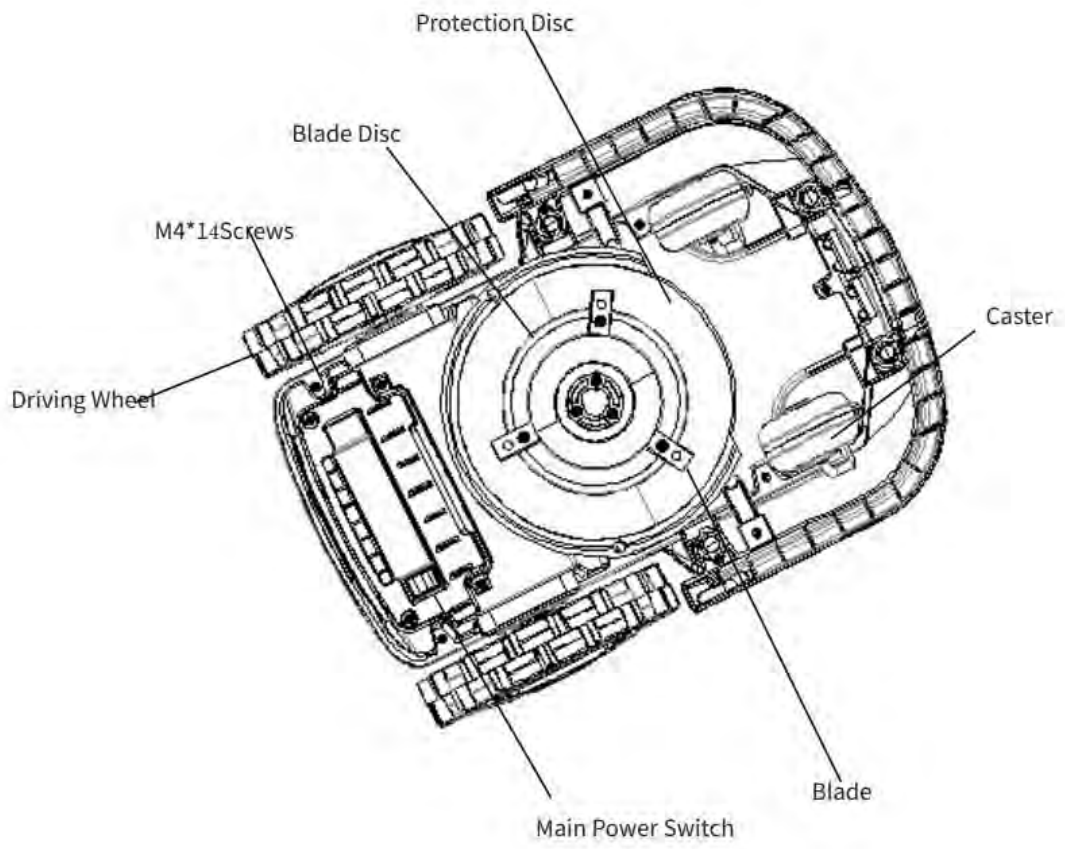
What's in the box?

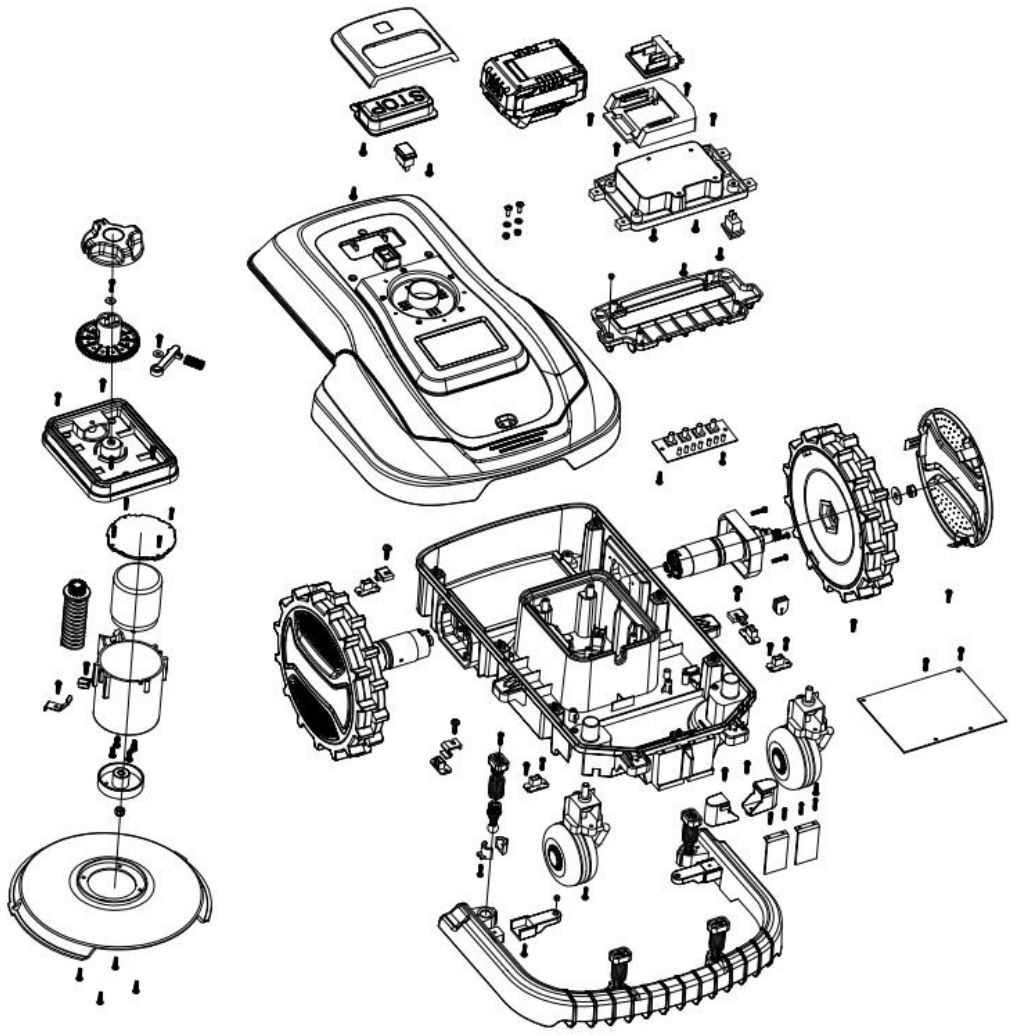


1. Mower * 1 pc
2. Charging station * 1 pc (includes 6 meters extension cord)
3. Power adapter * 1 pc
4. Boundary Wire Peg * 100 pcs
5. Charging station fixing screws * 6 pcs
6. Connection clip * 2 pcs
7. Boundary wire * 100 meters (TLM-E502, TLM-E504)
8. Blades * 3 pcs
9. Instructions * 1 pc
10. M4*12 screws * 3 pcs
11. Hex key * 1 pc
12. Measurement gauge * 1pc

Exploded View



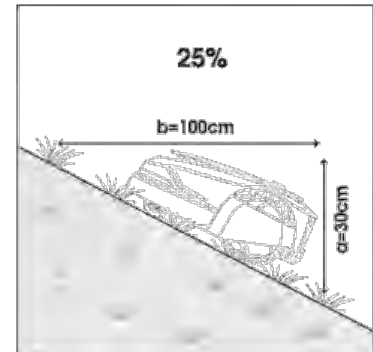




Planning and Preparation

Ensure that the following conditions are met in the working area of the mower:

- The height of grass is no more than 60mm. NOTE: If the original grass is higher than 60mm, please use a manual mower to cut your lawn in advance.
- No stones, loose pieces of wood, wires, live cables.
- Other foreign objects.
- Level and flat working area, no ditch or trench, slope less than 25% (Fig.3-1)



(Fig.3-1)

The following tools are required for the installation process:

- Rubber Hammer (to drive pegs into the ground to fix the boundary lines)
- Hex key (to fasten the charging station)
- Set of pliers (to cut and set aside the boundary lines)

Installation of charging station

Select the proper location.

The location of the charging station is as follows (Fig.3-2-1):

- A relatively flat and even area of the lawn.
 - At the border of the lawn, your robot will come home in an anticlockwise direction.
 - Close to the power socket on the wall.
- (Low-voltage cable length of 10m, a cool and dry place for adapter, and no direct sunlight).
- At least 2m in front of the charging station should be unobstructed
 - It is recommended to place the charging station in a dry and sheltered location.
 - Your power adapter should be either 30cm's from the ground level or higher than the charging station so as to not interfere with the robots sensors

Fix the charging station.

Fix the charging station to the ground using 6 Fixing screws (using hex key to fasten) (Fig.3-2-2).

NOTE: DO NOT tread or walk on the plate of the charging station.

NOTE: DO NOT make new holes in the plate of the charging station. Only use the existing holes in the charging station to secure it to the ground.

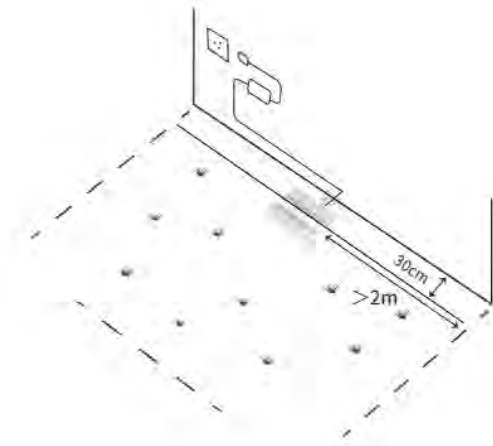


Fig.3-2-1

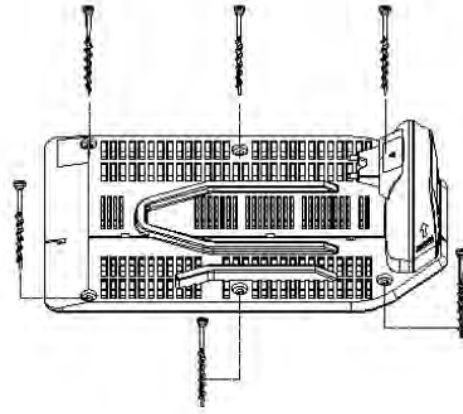


Fig.3-2-2

Lay the boundary wire

The boundary wire is used to define the mower's working area and guide the mower back to the charging station. **NOTE:** If your neighbour also uses a mower, keep a space of at least 1m between your boundary wire and your neighbour's.

Planning to lay the boundary wire

Before laying the boundary wire, walk along the preset boundary to clear all the debris such as stones and guide the mower back to the charging station **in an anticlockwise direction**.

NOTE: The maximum permitted length for the boundary wire is 200m

WARNING! The mower must not run over gravel or similar material which can damage the blades.

Chomper will always find its way home in an anticlockwise direction, please ensure you've set your charging station facing the correct direction for it to be able to dock successfully.

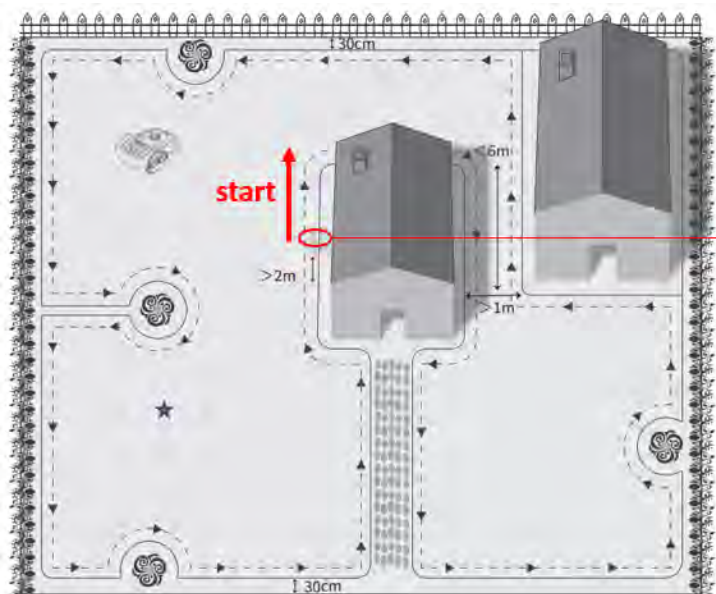
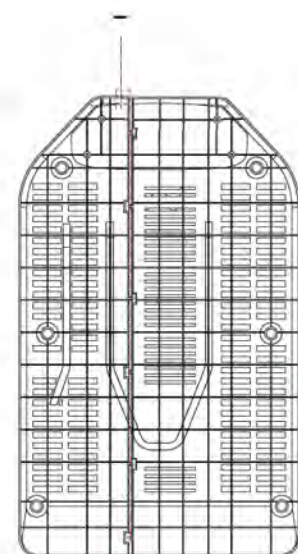


Fig.3-3-1

Charging Station



+

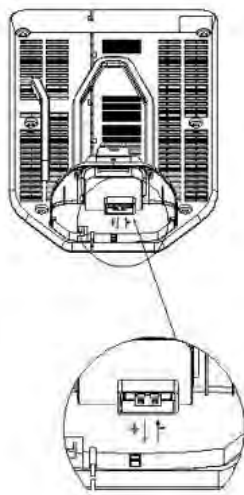


Fig.3-3-2

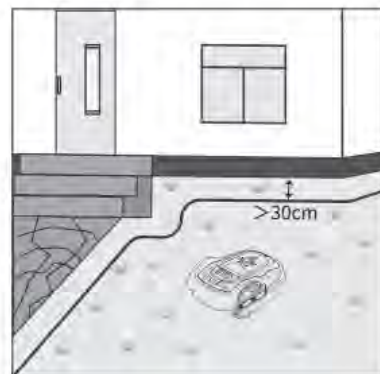
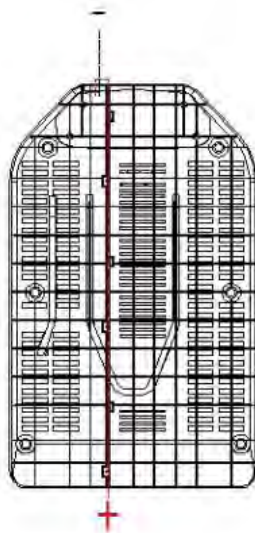


Fig.3-3-3

Laying the boundary wire(Fig.3-3-1)

Follow the instructions listed as below to lay the boundary wire around the working area and around obstacles. Use the supplied measurement gauge in the box to lay the boundary wire properly.

NOTE: The boundary wire is powered with a very low voltage, and it is safe for humans and pets.

NOTE: Start from the "-" interface at the rear of the charging station (reserve 10cm) to lay the boundary wire **anticlockwise** around the lawn and end the boundary wire at the "+" interface of the rear of the charging station (reserve 10cm). Make sure the boundary wire is in contact with the metals of the "+" and "-" interfaces and the extra boundary wire is cut off (Fig.3-3-2).

- Keep a straight path or driveway of at least 2m between the boundary wire for the mower and the charging station.
- Make sure to keep a space of 30cm between the boundary wire and the edge of the lawn (Fig.3-3-3).
- Secure the boundary wire into the ground with supplied pegs. Keep the boundary wire straight and tight. It is recommended that each peg should be placed 1m apart (can be adjusted according to the specific lawn) (Fig.3-3-4). **Don't bury the boundary more than 2cm underneath the ground, this will impact the signal.**
- Make sure the angle of the boundary wire is more than 90°.(Fig.3-3-5).
- Create perimeter islands to lay the boundary wire if there are flowerbeds, ponds, and trees in the lawn. Keep a space no less than 30cm between the boundary wire and their edges.
- Make sure the boundary wire is not crossed on its way to and from an island (Fig.3-3-6).

NOTE: Make sure the boundary wire insulation ends are bared off so that the metal is in contact with the "+" and "-" metal connections of the homebase. It must be metal on metal.

- Allow a narrow space in the working area of the mower. Make sure that the distance between the parallel boundary wires is no greater than 1m (Fig.3-3-1).

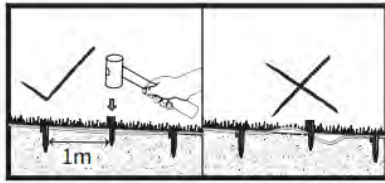


Fig.3-3-4

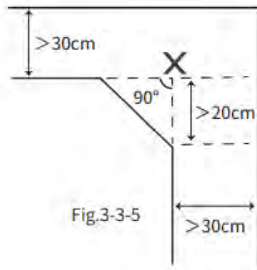


Fig.3-3-5

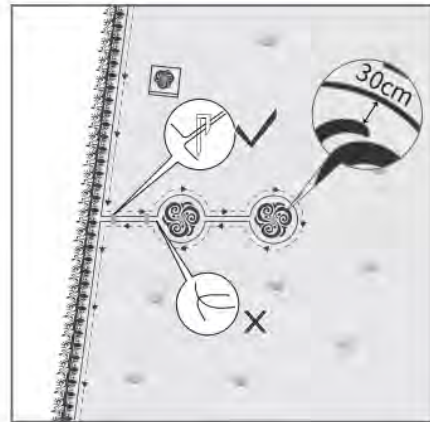
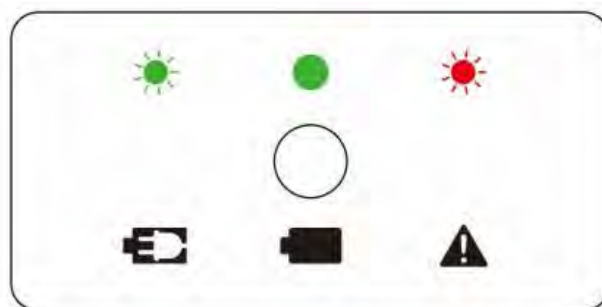


Fig.3-3-6

Connect the power

1. Connect the power plug to a 100-240V wall outlet.
2. Check the LED status on the charging station:
 - Green, continuous: Successful connection (currently not charged or fully charged)
 - Green, flashing: The mower is charging.
 - Red, flashing: The common fault is "Boundary wire disconnection."
 - Off: The common fault is "No 100-240V power supply" or "Failure of connection to the power supply"

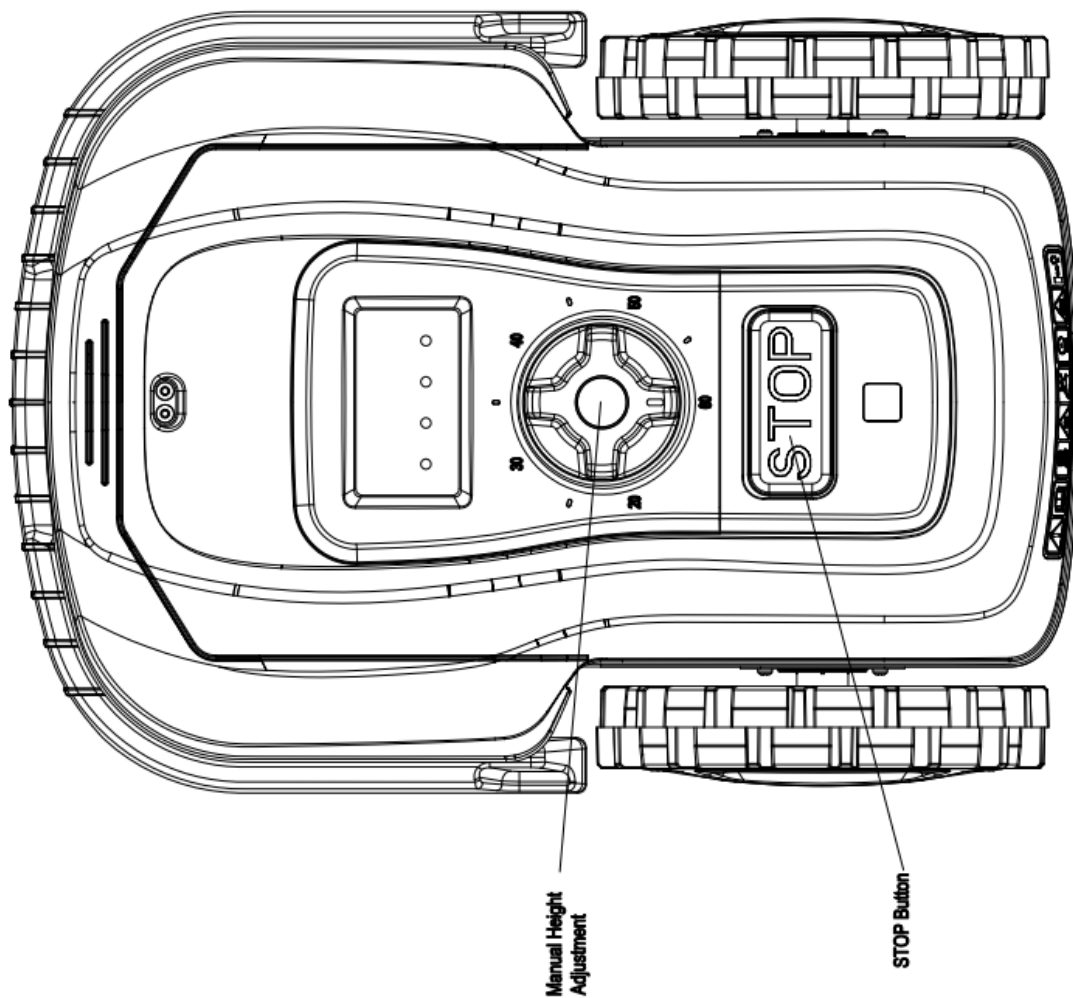


Operation

Adjust the cutting height

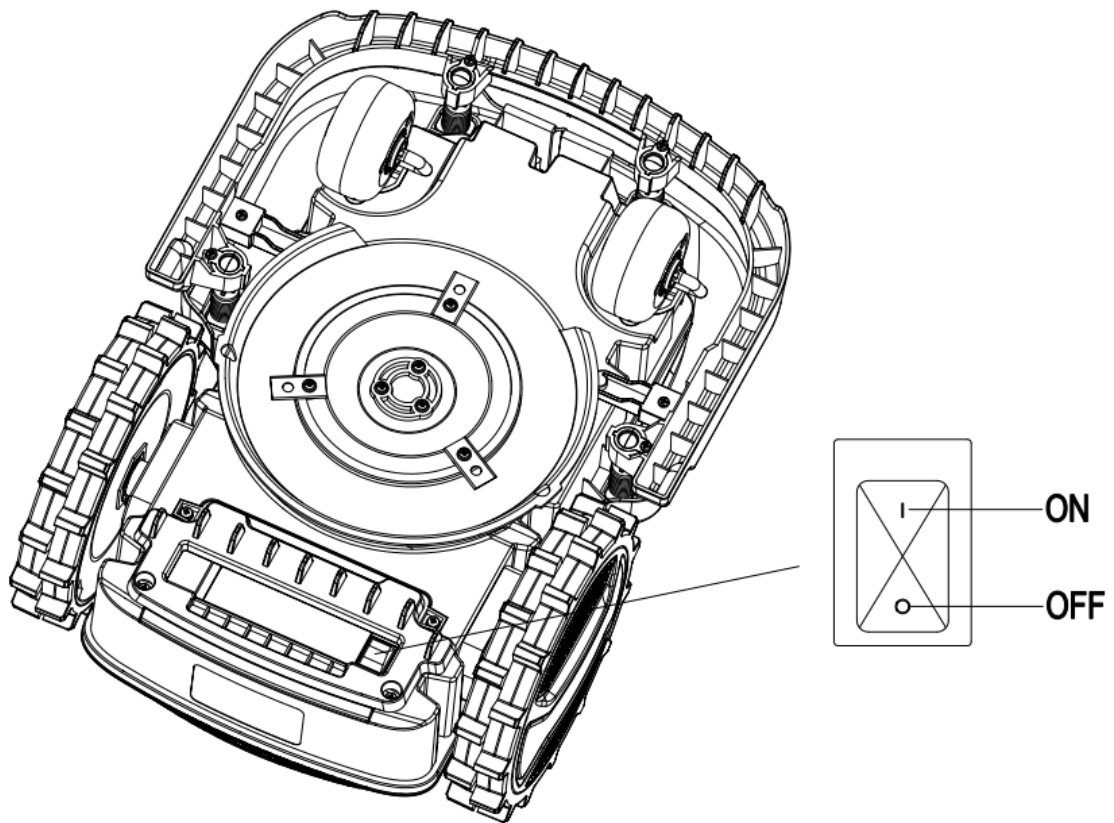
Before mowing for the first time, please set the mowing height to 60mm, and then adjust it to the desired height when the whole lawn is relatively flat.

- Clockwise rotation to increase the cutting height.
- Counterclockwise to decrease the cutting height (Fig 4-4)
- The cutting height of the mower can be adjusted from MIN (20 mm) to MAX (60 mm)



Switch on/off the main power

1. Turn the switch to "O" position to turn off the main power.
2. Turn the switch to "I" position to turn on the main power.

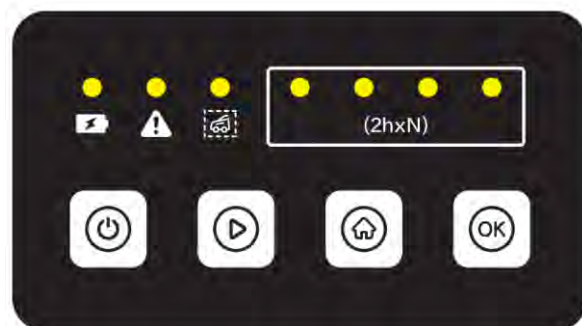


Set up your Chomper via the Toua APP









The app is the easiest and quickest way to set it up and operate it.
Please refer to our App Instruction booklet for QR code and set up guide.

Manual Set up without the app -



Turn on the mower and set the working time




MAKE SURE TO FULLY CHARGE YOUR ROBOTIC LAWNMOWER BEFORE USE.



1. Long press the power button  start. Note: When starting, do not shake the mower to avoid start-up failure. If it fails (all indicators are on solid), please start again.
2. Input the password:  +  +  +  + 
3. Choose the working time (includes the mowing time and charging time) :
 - Press the  to select the working time, one light means 2h, maximum 8 hours with 4 lights on. Press  to confirm and start the mower.

NOTE: Once you set the working time, the mower will memorize and everyday start to mow as per first operation time and do the mowing time as per your setting.

4. If you want to change the working time, repeat above 1 to 3 steps.
5. Press  +  to ask the mower to go back to charging station.

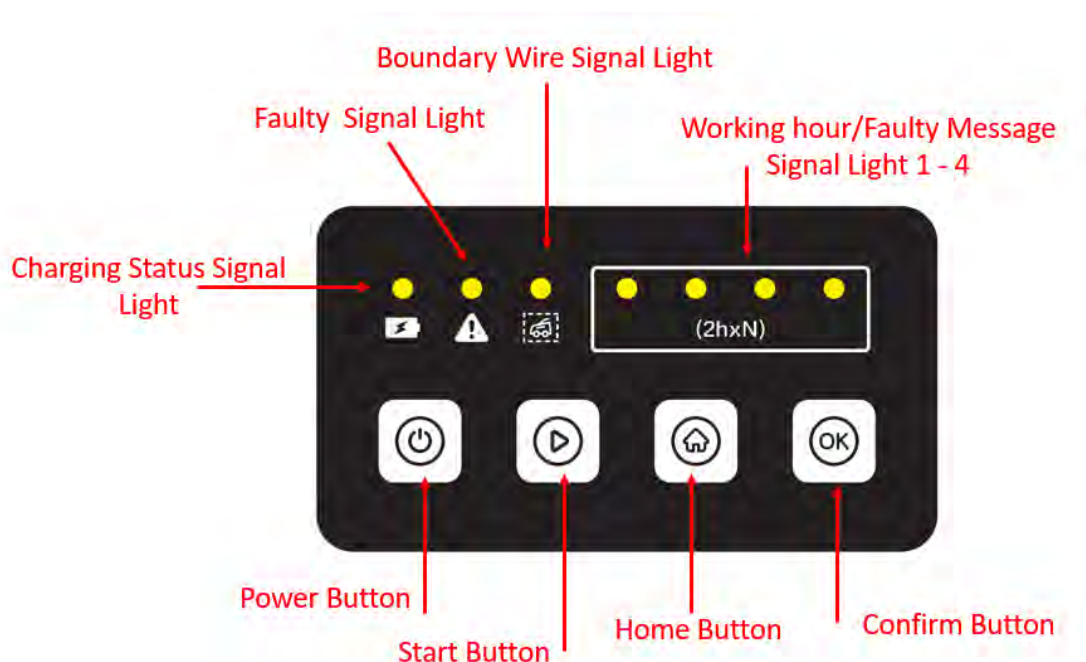
ATTENTION !

**DO NOT PRESS POWER  AND OK BUTTON  AT THE SAME TIME !
BUTTON**

If you press power button  +  at the same time, the indicator light is fully lit. After waiting 15 seconds and the buzzer prompts sound, the mower can return to normal.

Introduction of Control Panel

If you are unable to use our app you can manually set your robot up by following the steps below.



Charging Status Signal Light:

In the charging station: Continuous green – fully charged.

Flashing green – charging.

Out of the charging station: Continuous green – battery $\geq 20\%$

Flashing green – battery $< 20\%$

Faulty Signal Light:

Continuous green – system needs to be updated, please connect APP to update.

Flashing green – system updating.

Flashing red – faulty message 1 to 5, please restart the mower.

Continuous red – faulty message 6 – 12, press “STOP” or “OK” button to clear.

Boundary Wire Signal Light:

Continuous green – Boundary signal normal

Continuous red – No boundary signal

Signal Light 1 – 4:

Continuous flashing – robot mower locked.

Not Continuous flashing – robot mower unlocked.

Signal light 1 in green: 2 hours working time.

Signal light 1 & 2 in green: 4 hours working time.

Signal light 1 & 2 & 3 in green: 6 hours working time.

Signal light 1 & 2 & 3 & 4 in green: 8 hours working time.

Turn off the mower

Press “STOP” to stop the mower, long press power button to stop, turn off the main power if needed.

Carry the Mower

Under the mower, a lifting handle is reserved for easy one-handed handling of the mower (Fig.4-5).

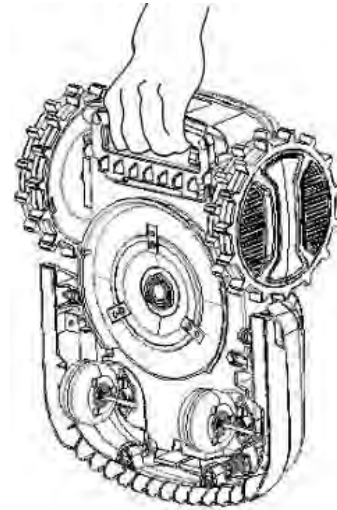


Fig.4-5

Maintenance

WARNING! Always switch the mower off before cleaning and maintaining the mower.

WARNING! Unplug the power supply before cleaning and maintaining the charging station.

WARNING! Always wear protective, heavy gloves when changing the blades and cleaning the underside of the mower.

- Regularly check screws and nuts for proper tightness. Maintain or replace defective parts to ensure safety.
- Regular inspect the blades to ensure free rotation.

NOTE: When turning the mower over, place it on the lawn or a softer surface to avoid wearing and scratching the cover.

Cleaning

WARNING! Turn off the main power switch before cleaning.

- Use a low-pressure washer and a soft brush or towel to clean the front part (Fig.5-1-1, Fig.5-1-2).
- Use a hard brush to clean the grass clippings and debris from the blades, wheels, and other parts on bottom.
- Regularly check the rain sensors and wheels for mud or grass clippings and clean them with a brush.

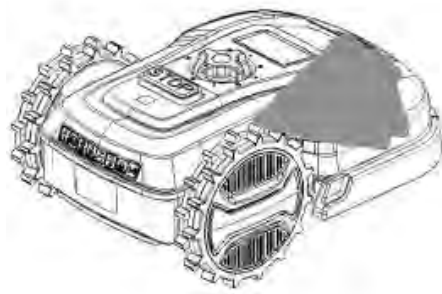


Fig.5-1-1

NOTE: Regularly clean the grass clippings at the bottom of the mower, to avoid affecting the mower efficiency.

Replace the blades

WARNING! Turn off the main power switch and put on protective gloves first.

WARNING! Only use the original and designated blades as approved.

- Replace all three blades and their screws at the same time when replacing (Fig. 5-2)
- Use a screwdriver to loosen or fasten the screws.
- Check if the new blades can pivot freely.

Replace the blades

WARNING! Turn off the main power switch and put on protective gloves first. WARNING! Only use the original and designated blades as approved.

- Replace all three blades and their screws at the same time when replacing (Fig. 5-2)
- Use a screwdriver to loosen or fasten the screws.
- Check if the new blades can pivot freely.



Fig.5-1-2

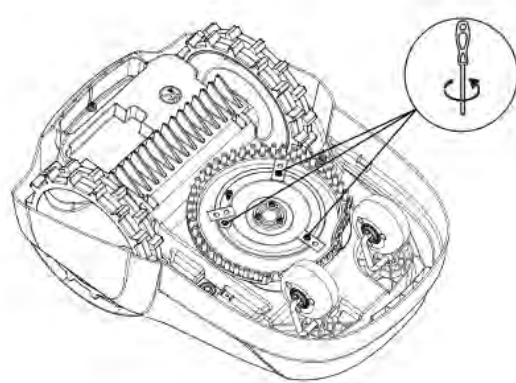
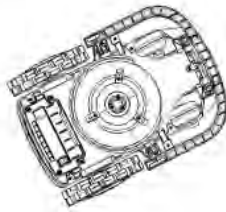


Fig.5-2

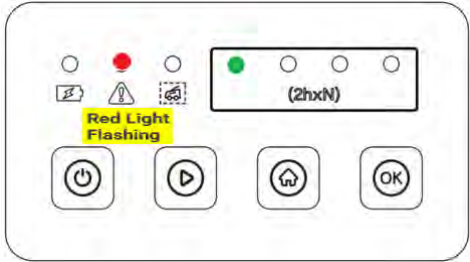
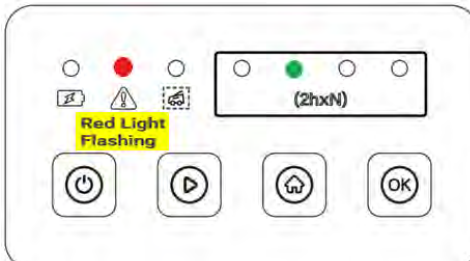
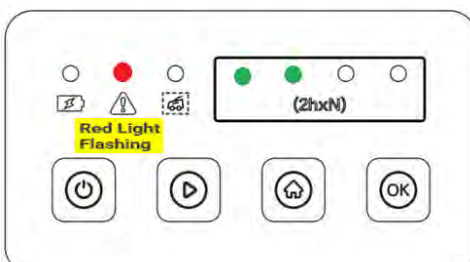
Troubleshooting

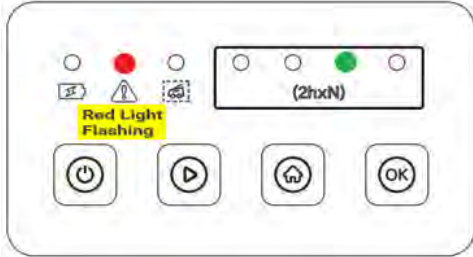
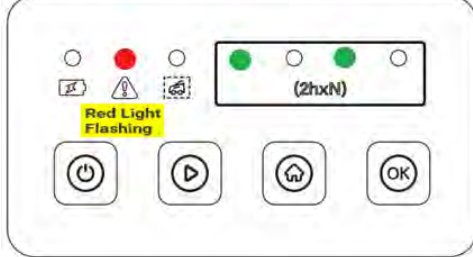
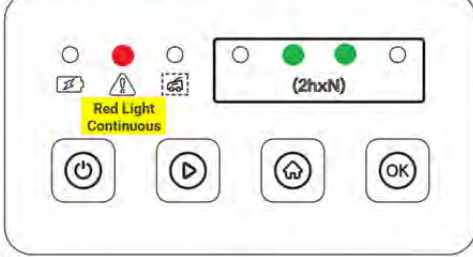
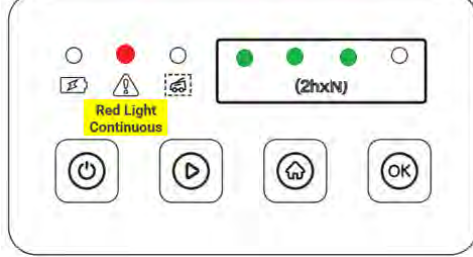
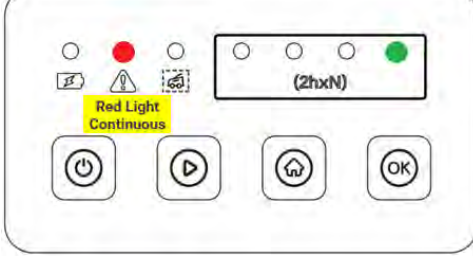
The following chart offers a guide to help identify an issue.

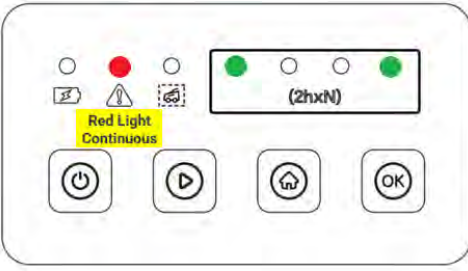
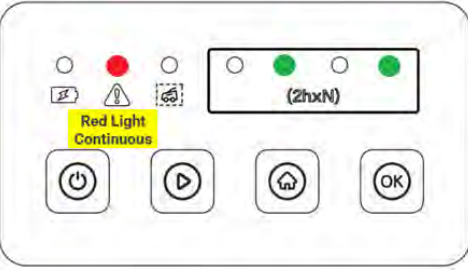
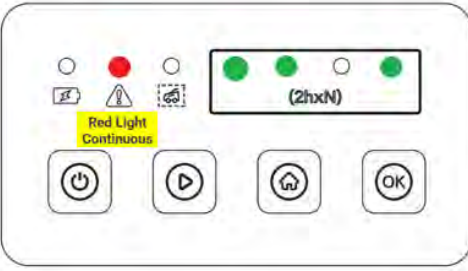
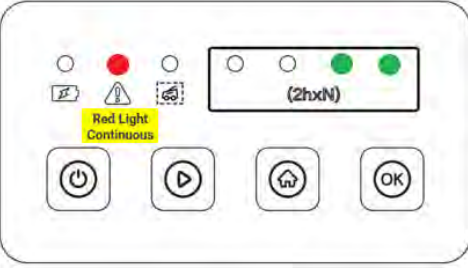
If possible, repair by yourself. When the problem cannot be solved, consult an authorized dealer or repairer.

WARNING! Please take protective measures.

Issue	Possible Causes	Solutions
The charging station is red flashing	The boundary wire is broken	Check and repair the damaged boundary wire section
The mower has difficulty docking with the charging station	The charging station is not properly installed	Refer to Page 9 - 11
	The boundary wire is not properly laid	
No boundary wire signal	No power	Check the power supply.
	The boundary wire is reversed	Swap the " + " and " - " interfaces
	The boundary wire is not connected to the charging station	Check the boundary wire for proper connection to the charging station
	The boundary wire is broken	Check if the entire boundary wire is broken
	The boundary wire is crossed on its way to and from an island	Check if the boundary wire is correctly installed
The mower goes outside the boundary	The boundary wire is reversed	Swap the " + " and " - " interfaces
The mower vibrates or makes an abnormal noise	The blade is damaged or missing	Check and repair blade fastening screws
	The blade disc is loose	
	Replace the blade	

Phenomenon	Error code	Description	Solution
	E01	Initialization Error - Gyroscope sensor	Put the mower on a flat ground, and restart.
	E02	Collision sensor, lift sensor error	Adjust the collision bar and universal wheel in front of the mower, make sure they are not stuck; Put the mower on a flat ground, and restart.
	E03	Initialization Error - cutting motor	Put the mower on a flat ground, restart. If the problem persist, please contact after-sales service.

	E04	Power Connection Error	
	E05	Cutting motor speed abnormal	
	E06	Tilt Warning	Put the mower on a flat ground. Press STOP or OK button to clear the alarm.
	E07	Lift Warning	Put the mower on a flat ground. Press STOP or OK button to clear the alarm.
	E08	ADC channel fault	Put the mower on a flat ground, restart. If the problem persist, please contact after-sales service.

	E09	Signal Abnormal	Refer to above chart – Issue – no boundary wire signal. Check point to point, and after that put the mower on a flat ground. Press STOP or OK button to clear the alarm. Restart the mower. If the problem persists, please contact after-sales service.
	E10	Mower trapped	Put the mower on a flat ground. Press STOP or OK button to clear the alarm. Restart the mower. If the problem persists, please contact after-sales service.
	E11	Left Walking Motor speed abnormal	Restart the mower. If the problem persists, please contact after-sales service.
	E12	Right Walking Motor speed abnormal	

Specifications

Model No.	TLM-E504
Feature	
Cutting area	500m ²
Appearance & Color	As per customer request
Function Settings	LED Keyboard
Cutting Height Settings	Manually
Charging Interface Type	Front Charging Interface
Obstacle Detection	Collision and Wheel awareness
Safeguard	Life Stop / Tilt Stop / Emergency Stop
Battery Settings	Disassembled Battery
Functions	
Intelligent Schedule	YES
Boundary Collision	YES
Rain Sensor	YES
Rain Sensor Delay	YES
GPS	N/A
Cutting Height	20-60mm
Cutting Diameter	180/200mm
Hill Capability	Max slope 25 degree
APP Control	IOS or Android
Upgrade Interface	WiFi or Bluetooth
Motor Type	2*Brushed Walking Motors + 1* Brushless Cutting Motor
Erro Message Record	YES - APP
Multiple Language	YES - APP
PIN Settings	N/A
Time Synchronization	YES - APP
Gyroscope	YES
Spiral Cut mode	YES
Emergency STOP Switch	YES
Cuts to Edge	YES
Self-charging Management	YES

Virtual line abnormal alarm	YES
Battery	
Type of Battery	Lithium
Rated Voltage	20V
Battery Capacity	4000mAh
Charging Time	140mins
Average working time	80mins
Power Adapter	
Input	110-240 Vac, 50/60Hz, 48W, Class II, IP65
Output	20V 2A
Other Parameters	
Waterproofed	IPX4
Certificate	GS&CE&Rohs
Measurement	520x380x227mm
Weight	8kg

Warranty

This Warranty covers only defects of any material or quality of the Product and components when the Product and components thereof are being used under normal and ordinary conditions.

The Limited Warranty Period of one year commences on the date of the original purchase of the Product.

This Limited Warranty does not cover and excludes damage to your product, or any component thereof caused by:

- The normal deterioration of wear and tear parts
- Improper battery storage or operation of the Product
- Use of any non-original battery
- Service, repair, and maintenance by unauthorized providers
- Other

CE Declaration of Conformity