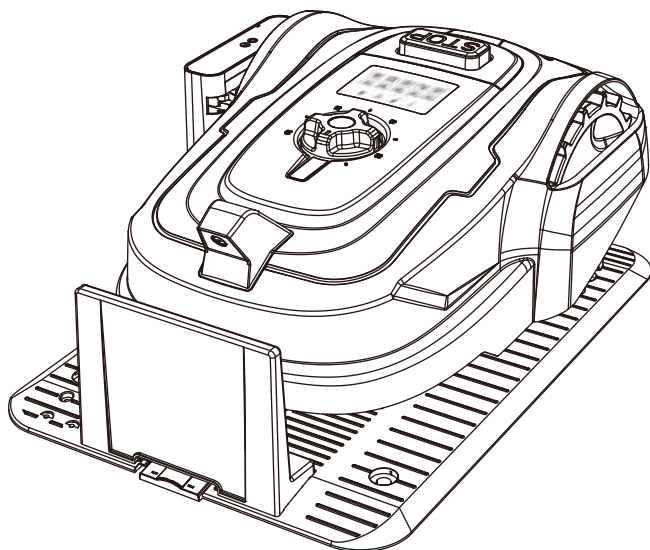


ROBOTIC LAWNMOWER

User Manual

M800Plus



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

Thank you for choosing the M800Plus lawnmower.

This robotic mower independently navigates your lawn in three modes: orderly mowing, random mowing, spiral mowing. After finishing, it uses advanced GPS and vision-based navigation to return to its charging station for automatic recharging.

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.

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

WARNING! Physical isolation is required when the lawn has the following conditions:

1. When the lawn is connected to the neighbor's lawn (no clear edge);
2. When there is invisible holes/pits camouflaged by grass, swimming pools with faded or flush edges;
3. Any abrupt elevation changes without clear visual markers.

Boundary connection and boundary danger areas can be physically separated by laying fences, red bricks, and pebbles (laying width > 10cm/4").

And please don't worry about the machine running off the road, When nearing lawn edges adjacent to roads (at equal height), Via AI-camera the machine detects non-lawn surfaces and automatically maintains an 18cm (7") working buffer from boundaries.

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1.Safety Warnings

1.1 Important

READ CAREFULLY BEFORE USE. KEEP FOR FUTURE REFERENCE

1. Be sure to install and operate the mower according to the instructions.
2. The mower has many built-in safety sensors, but safety risks still exist. Inform your family and neighbors about the risks for accidents or hazards.
3. When using the mower on a public lawn, or when your lawn is open to your neighbor 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!

4. DO NOT repair the mower by yourself. Repair may interfere with the mower operations, resulting in serious injury and damage.
5. Please contact a qualified specialist and use the approved parts and accessories.

1.2 Warning

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:

1. Before each mowing session, check that all parts of the mower can function normally.
2. 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.
3. 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.
4. 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.
5. NEVER allow children to touch the power supply unit, charging station, blades, the battery compartment, or any parts with gaps such as the wheels.
6. Keep away from the rotating blades! DO NOT put hands or feet under or near the rotating blades.
7. Watch out for throwing objects! Keep a safe distance from the mower when operating.
8. DO NOT leave the machine to operate unattended if you know that there are pets, children or people in the vicinity.
9. 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.
10. 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.

11. 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.
12. 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.
13. The device must not be used at altitudes higher than 2000 m.
14. A note not to lean forward when operating the machine and its peripherals, and always to maintain balance and a firm footing on slopes; and always to walk and not to run.

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! Cut off the power:

Before blocking it.

Before the machine is tested, cleaned, or processed.

Before cleaning foreign objects in the machine.

When the machine starts to shake violently, please stop the machine immediately for inspection.

1.3 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.



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.

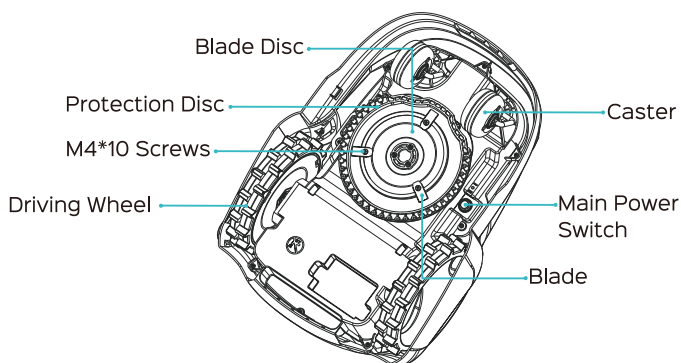
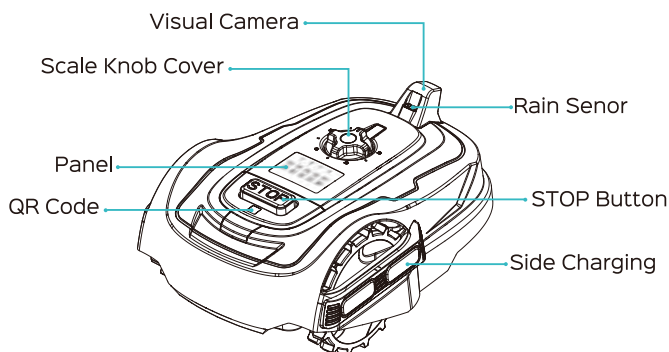


Alternating current.

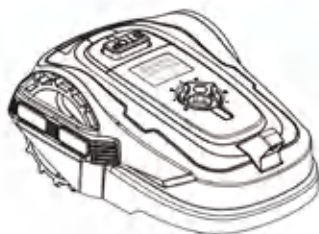
RoHS

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

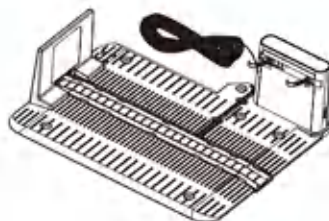
2.Product External Overview



3.Packing List



1



2



3



4



5



6



7



8

- | | |
|---|-----------------------------------|
| 1 Mower x 1 pc | 5 Hex Key x 1 pc |
| 2 Charging Station x 1 pc | 6 Instruction Manual x 1 pc |
| 3 Power Adapter x 1 pc | 7 Blade x 3 pcs |
| 4 Charging Station Fixing Screw x 6 pcs | 8 M4*10 Screws for Bblade x 3 pcs |

4.APP Instruction



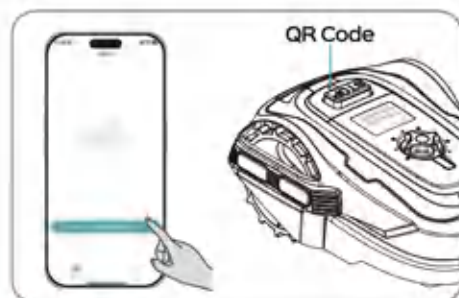
APP Download QR Code for iOS



APP Download QR Code for Android



- 1 Scan with a browser or other scanning tool and then automatically jump to the store to download.
- 2 Choose Your Language and then register. You can either use your email to register, or login via a third-party.



- 3 Make sure your robot mower is on for the following steps. Scan the QR code in the robot mower to add your device.



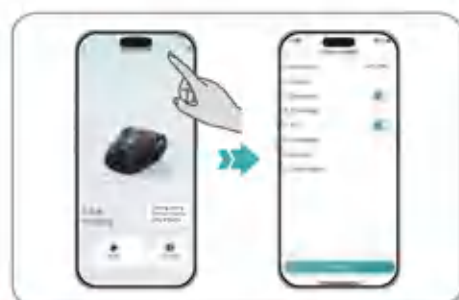
- 4 If the QR code is damaged, you can add your robot mower manually.



- 5 Connect your robot mower to app via Bluetooth.
Note: if you use Bluetooth to control your mower, make sure the distance between you and robot mower is within 6 meters.



- 6 Connect your robot mower to Internet, input Wifi and password.(You can skip this step if only want to connect via Bluetooth) **Note:** After connect your robot mower to internet, you can control your robot mower remotely.



- 7 Set your robot mower.



- 8 Important !!! After you set the schedule, press home button, let the mower fully charged, and it will work as per your setting.



9 Know your robot mower.



10 Important !!! If you have problem finding or connecting Bluetooth, please select "Forget This Device" via "Settings" in the app. Then repeat above steps.

5.Installation

Read the whole section before starting the installation. Plan the installation carefully as inappropriate installation may affect the performance of the mower. The main tasks of the installation process are as follows:

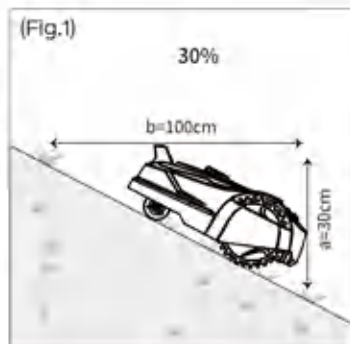
5.1 Planning and Preparation

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

1. The height of grass is no more than 60mm/2.36inch.

NOTE: If the original grass is higher than 60mm (2.36inch), please use a manual mower to cut your lawn in advance.

2. No stones, loose pieces of wood, wires, live cables and other foreign objects.
3. Level and flat working area, no ditch or trench, slope less than 30%.(Fig.1).
4. Hex key (to fasten the charging station).

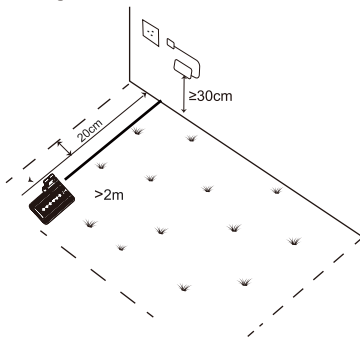


5.2 Select the Proper Location and Fix the Charging Station

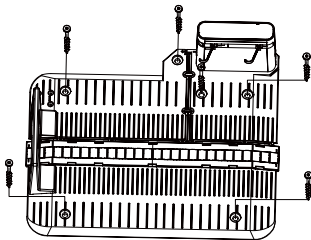
The location of the charging station is as follows (Fig.2):

1. A relatively flat and even area of the lawn.
2. Near the border of the lawn.

3. 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).
 4. At least 2m in front of the charging station should be unobstructed.
 5. It is recommended to place the charging station in a dry and sheltered location.
 6. The power adapter is 30cm above the ground.
- Fix the charging station to the ground using 6 Fixing screws (using hex key to fasten) (Fig.3).



(Fig.2)

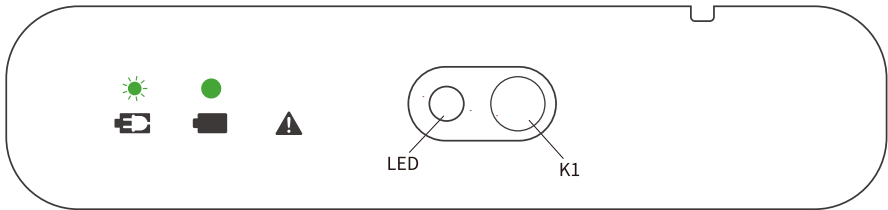


(Fig.3)

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.

5.3 Initial Power-up of the Charging Station

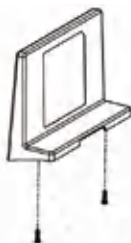


● Green, continuous	Successful connection (currently not charged or fully).
⚡ Green, flashing	The mower is charging.
Off	The common fault is "No 100-240V power supply" or "Failure of connection to the power supply".

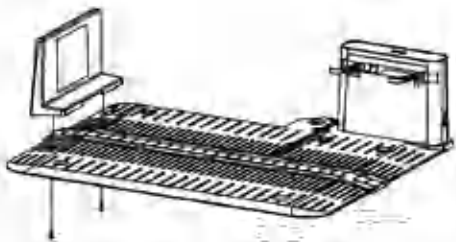
NOTE: When the battery is too low to turn on, try to activate the battery pack with a long press on the K1 button (operate under the guidance of a qualified specialist).

5.4 Installation Method for the QR Code Holder on the Charging Base Station

1. Loosen the two screws as show in the Fig.4.
2. Insert the screws through the base plate and tighten them into the screw holes of the QR code bracket as show in the Fig.5 to complete the installation.



(Fig.4)



(Fig.5)


6.Operation

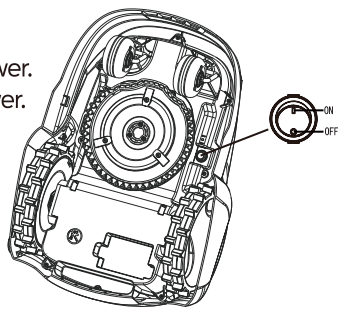
6.1 Switch On / Off the Main Power

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.

6.2 Start / Stop the Mower

Start:

1. Turn on the main power.
2. Open the panel, long press the power button  to start.



(Fig.6)

Note: When starting, do not shake the mower to avoid start-up failure. If it fails (all indicators are on solid), please start again.

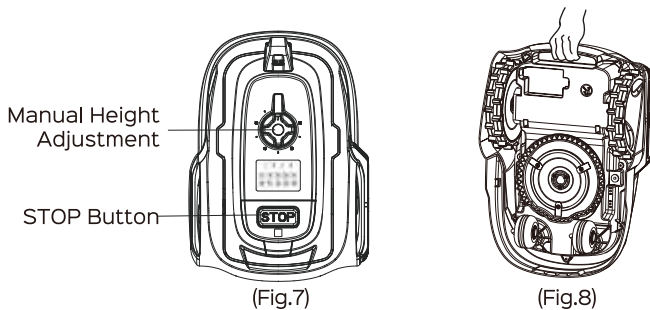
Stop:

Press the "STOP" button on the mower.

6.3 Adjust the Cutting Height

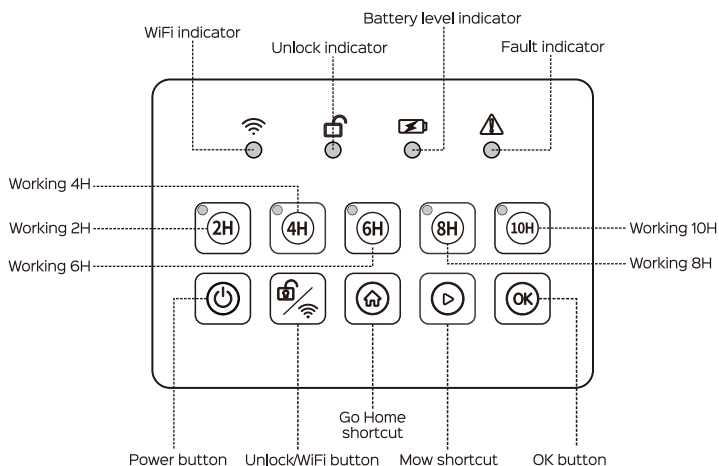
Before mowing for the first time, first set the mowing height to 60mm, and then adjust it to the desired height when the whole lawn is relatively flat.

1. Clockwise rotation to increase the cutting height;
Counterclockwise to decrease the cutting height (Fig.8).
2. The cutting height of the mower can be adjusted from MIN (20 mm) to MAX (60 mm).



6.4 Operate the Mower

6.4.1 Introduction of Control Panel



6.4.2 Panel Indicator

Wi-Fi Button.	<ul style="list-style-type: none"> ● Long press for 3-5 seconds resets Wi-Fi settings. ● If already connected to the application, a long press on the Wi-Fi button will release the connection. ● If not previously connected, a long press on the Wi-Fi button should put the device in pairing mode.
Wi-Fi LED (indicates Wi-Fi connection status).	<ul style="list-style-type: none"> ● Stays solid and ON: connected and ready to operate with App. ● When flashing, ready to connect (Wi-Fi and bluetooth). ● When off: the Wi-Fi module is idle.
Unlock indicator.	<ul style="list-style-type: none"> ● Continuous green light - Unlocked. ● Green light flashing - Locked.
Battery level indicator (at charging station).	<ul style="list-style-type: none"> ● Continuous green light - Full charged ● Green light flashing - In charge.

Battery level indicator (Not at charging station).	<ul style="list-style-type: none"> ●Continuous green light - Battery capacity ≥25%. ●Continuous red light - Battery capacity <25% (when capacity is below 20%, charge at home autonomously).
Fault indicator.	<p>The number of times the red and green light flashes indicates the error code, as follows:</p> <ul style="list-style-type: none"> ●Number of red lights * 1+ Number of green lights * 10 = Error code. <p>(Please see the section Troubleshooting for the definition and solution of the error code of the wrong light).</p>
Working hours indicator.	<ul style="list-style-type: none"> ●2H, 4H, 6H, 8H and 10H, indicating the daily working hours.

6.4.3 Unlock

Note: Power-on password 4H+6H+8H+10H.

Note: Green light flashing of the Unlock indicator, indicating that it is not unlocked
Continuous green light of the Unlock indicator, indicating that it is unlocked.

The unlocking operation is as follows:

1. Press the password in turn: + + + .
2. Then press .

Note: If the input is incorrect, you need to try again.

6.4.4 Set the Daily Working Hours

Note: Working hours include mowing time and charging time.

The modifications are as follows:

1. Unlocked.
2. Press or or or or (The corresponding working hours indicator is always on, indicating time settings are completed.)
3. Press then press .

6.4.5 Select Mowing Mode

Orderly Mowing:

Press one, then press to start orderly mowing.

Random Mowing:

Press twice, then press to start random mowing.

Spiral Mowing:


Press three times, then press to start spiral mowing.


6.4.6 Go Home

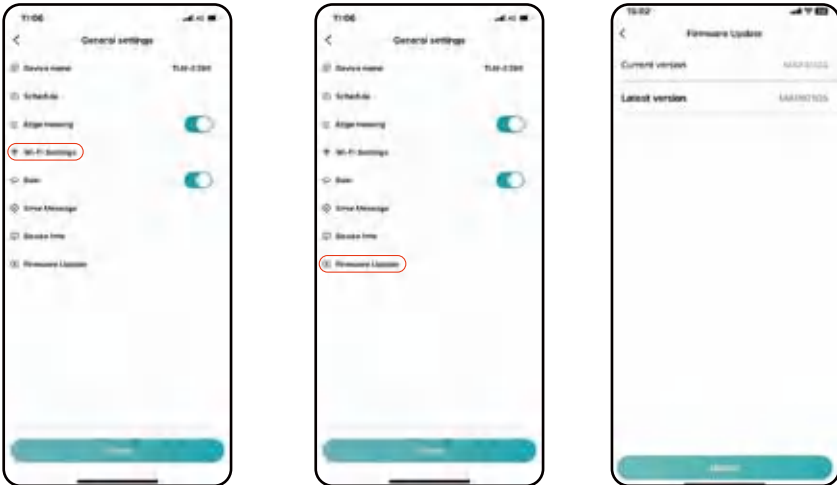
1. Unlocked.
2. Press .
3. Then press .

Note: If there is a work task in the current time period, the mower will still go out and continue to work after it goes home and is fully charged.

7.OTA Upgrade

1. Ensure that the  on the machine is lit up.
2. Click on "Firmware Update" in the APP to enter the upgrade page, and then click "Update" to start the upgrade.

NOTE: If the  is not lit up, you need to click on "Connect to Wi-Fi" on the device details page in the APP.



8.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.

1. Regularly check screws and nuts for proper tightness. Maintain or replace defective parts to ensure safety.
2. 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.

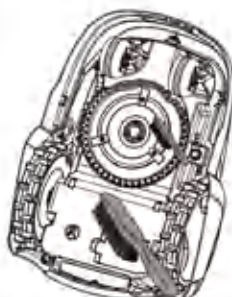
8.1 Cleaning

WARNING! Turn off the main power switch before cleaning.

1. Use a low-pressure washer and a soft brush or towel to clean the front part(Fig.9, Fig.10).
2. Use a hard brush to clean the grass clippings and debris from the blades, wheels and other parts on bottom.
3. Regularly check the rain sensors and wheels for mud or grass clippings and clean them with a brush.



(Fig.9)



(Fig.10)



Camera

(Fig.11)

NOTE: DO NOT wash the underside of the mower with water.

NOTE: Clean weeds on the underside of the machine regularly, so as not to affect the efficiency of grass cutting.

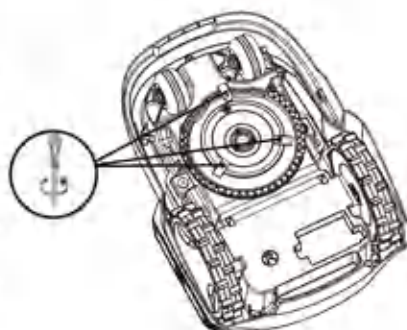
NOTE: Clean dust and sundry matter at the camera surface regularly to avoid misjudgment by the machine (Fig.11).

8.2 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.

1. Replace all three blades and their screws at the same time when replacing (Fig. 12).
2. Use a screwdriver to loosen or fasten the screws.
3. Check if the new blades can pivot freely.



(Fig. 12)

9.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 mower has difficulty docking with the charging station.	The charging station is not properly installed.	Refer to Page 6.
Machine runs outside the grass field.	The boundary of the grass-land is not clearly defined.	Establish clear boundaries or install perimeter fencing.
The mower has difficulty docking with the charging station.	The charging station is not properly installed.	Refer to Page 6.
Machine runs outside the grass field.	The boundary of the grass-land is not clearly defined.	Establish clear boundaries or install perimeter fencing.
Abnormal vibration or abnormal sound of lawn mower.	The blade is damaged or missing.	Replace the blade.
	The knife dish is loose.	Check and repair blade fastening screws.
Machine cannot connect to APP.	Wi-Fi or Bluetooth not enabled.	Enable Wi-Fi and Bluetooth on the phone, then place the machine closer to the phone or Wi-Fi AP.
Machine charge fully but fails to work.	Bottom switch not turned on or charger adapter improperly connected.	Turn on the bottom switch and check if the indicator light functions normally.
Machine does not respond when turned on.	Bottom switch off or battery depleted.	Verify the bottom switch is on and charge the machine on the charging station for a period.
Machine cannot return to base.	Charging station incorrectly installed or QR code blocked.	Install the charging station per instructions, clear grass/debris from the station, and ensure the QR code is unobstructed.
Machine malfunctions after update.	Software compatibility issue.	Contact customer support for assistance.
Reduced runtime after full charge.	Actual runtime varies due to grass type, height, temperature, etc.	<ul style="list-style-type: none"> ● Gradually lower cutting height during initial use. ● Pre-cut excessively tall grass with a handheld lawn mower.

When there is an abnormality, the number of times the fault indicator flashers indicates the error code(see panel indicators).

Each red flash adds 1, and each green flash adds 10. For example, if the red light flashes rapidly 6 times and then repeats another 6 rapid flashes, it indicates an E06 error.

Below is a list of the error codes:

Error Code	Meaning	Solutions
E01	Initialization Failure.	Restart the machine.
E02	AI Vision Failure.	Restart the machine.
E03	Wi-Fi Failure.	Restart the machine.
E04	Gyroscope Initialization Failure.	Restart the machine.
E05	Motor Driver Communication Failure.	Restart the machine.
E06	Ground Sensor Failure.	Restart the machine.
E07	Power Management Module Failure.	Restart the machine.
E08	Gyroscope Failure.	Restart the machine.
E09	Machine Tilted.	Place the machine on a flat, stable surface.
E10	Machine Off-Ground.	Place the machine on a flat, stable surface.
E11	ADC Failure.	Contact technical support.
E12	No Work Area Detected.	Place the machine on grass before starting.
E13	The ambient brightness is too low.	The Robot lawnmower only works in daylight, clean the camera lens.
E20	Walking Motor Failure.	Clean debris blocking wheel rotation and retry.
E25	Cutting Motor Failure.	Clean debris blocking blade rotation and retry.
E30	Left Walking Motor Failure.	Clean debris blocking wheel rotation and retry.
E35	Right Walking Motor Failure.	Clean debris blocking wheel rotation and retry.

10.Specifications

Model No.	M800Plus
Feature	
Cutting area	800m²(8611sq.ft)
Function Settings	LED Keyboard & APP
Cutting Height Settings	Manually
Charging Interface Type	Sideward Charging Interface
Safeguard	Lift/Tilt /Emergency Stop
System upgrade	WiFi
Functions	
Intelligent Scheduling	Yes
Boundary Collision	Yes
Rain Sensor	Yes
Rain Sensor Delay	Yes
Cutting Height	20-60mm(0.79-2.36inch)
Cutting Diameter	180mm(7inch)
Hill Capability	Max slope 20 degree
APP Control	IOS or Android
Upgrade Interface	WiFi
Motor Type	BLDC
Error Message Record	Yes

Multiple Language	Yes
Time Synchronization	Yes
Gyroscope	Yes
Spiral Cut mode	Yes
Straight Cut mode	Yes
Emergency STOP Switch	Yes
Self-charging management	Yes
Intelligent Obstacle avoidance	Yes
Battery	
Type of battery	Lithium
Rated voltage	18V
Battery capacity	4000mAh
Charging time	140mins
Average working time	100mins
Charge Parameters	
Input	100-240 AC.50/60Hz 48W
Output	20V 2A
Other parameters	
Measurement	570x406x264 mm(22.44x15.98x10.39inch)
Weight	8.2Kg(18.07Lbs)
Water proofed	IPX4

11.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 two years 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:

1. The normal deterioration of wear and tear parts.
2. Improper battery storage or operation of the Product.
3. Use of any non-original battery.
4. Service, repair, and maintenance by unauthorized providers.
5. Others.

FCC Statement

Note: This equipment has been tested and found to comply with the limits according to Part 15 of the FCC Rules of a Class B digital device. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications or persons. 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, the user is encouraged to try to correct the interference by one or more of the following measures:

- (1) Reorientate or relocate the receiving antenna.
- (2) Increase the separation between the equipment and receiver.
- (3) Plug the equipment into an outlet on a circuit different from that to which the receiver is connected.
- (4) Consult the manufacturer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This compliance to FCC radiation exposure limits for an uncontrolled environment, and minimum of 20 cm (7.87 inch) separation between antenna and body.

Warning

Changes or modifications of this product are not expressly approved by the party responsible for compliance (YARDCARE), and unauthorized modifications could void the user's authority to operate the equipment.

Compliance Declaration

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

