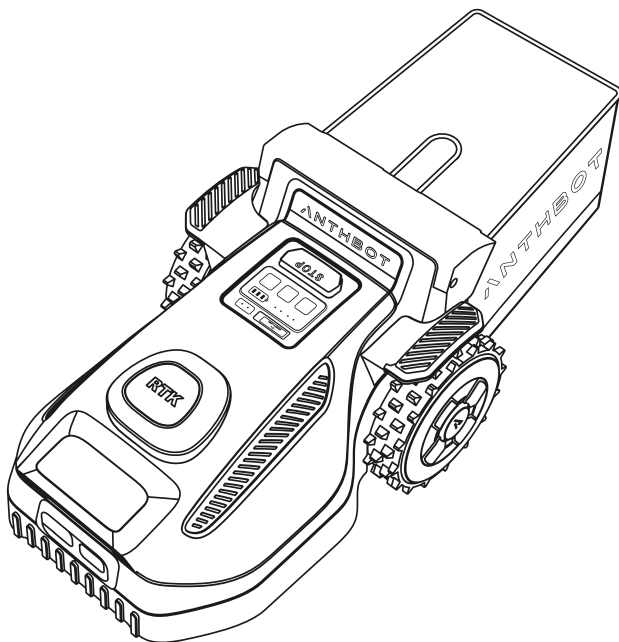


ANTHBOT

Smart Bot for the Easy Life

EN



N Series

Instruction Manual

Original instructions

Welcome to use the ANTHBOT Robot Lawn Mower. Please read this manual first to ensure safe and efficient operation.

Note: This product should be operated and supervised by adults.

1.Safety Notes

Important! Read all safety warnings and all instructions. Make yourself familiar with the controls and the proper use of the machine. Please keep the instructions safe for later use!

1.1 Explanation of Symbols on the Machine

EN

  WARNING Read instruction manual before operating the machine.	  WARNING Remove the disabling device before working on or lifting the machine.
  WARNING Keep a safe distance from the machine when operating.	  WARNING Do not ride on the machine.
 DANGER: Risk of pinching.	 Class III machines.
 DANGER Keep hands and feet away from the grass discharge chute to avoid laceration.	 Electrical appliances must not be disposed of with the domestic waste.
 The product complies with the applicable European directives and an evaluation method of conformity for these directives was followed.	
 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, and (2) this device must accept any interference received, including interference that may cause undesired operation.	

1.2 Explanation of Symbols on the Package

 Recyclable	 Fragile
 This side up	 Keep dry
 Stacking layers limit:6	 Do not step

2.Safety Warnings

2.1 Operation

2.1.1 Before Using

1. Be sure to install and operate the mower and the charging station according to the instructions.
2. Using the mower for purposes other than mowing can bring serious injury. To avoid risks of injuries, please read and understand all the warnings and cautions. Please understand that you can reduce the risk by following the instructions and warnings in this manual, but you cannot eliminate all risk. The operator or user is responsible for accidents or hazards occurring to other people on their property.
3. ANTHBOT has many safety sensors to protect our customers, however, safety risks still exist. Set a mowing time when there are no people or pets on the lawn. Inform the neighbors about the risks for accidents or hazards. 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 lawn mower! Keep away from the machine! Supervise children!
4. DO NOT modify the mower by yourself. Modifications could interfere with mower operations, result in serious injury and/or damage, or void the Limited Warranty.
5. Before working on the mower itself (e. g. maintenance, tool change, etc.) as well as during transport and storage, power off the mower by pressing and holding the OK button 15s.
6. The manufacturer recommends the user to be 18–70 years old. Be sure to get the necessary training before operating the machine.
7. 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.

2.1.2 Before Mowing

1. Regularly check that all parts of the mower can function normally.
2. Operate the machine only when the battery compartment is shut with the cover and all the screws in place. This protects the battery against moisture.
3. Keep any supply and/or extension cords away from moving hazardous parts and the working area to avoid damage to the cords which can lead to contact with live parts.
4. Do not to connect a damaged cord to the supply or touch a damaged cord before it is disconnected from the supply for the reason that damaged cords can lead to contact with live parts.
5. 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, thunderstorms or snow.
6. 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.
7. To avoid possible damage, keep the operating mower at least 1 m (3 ft) away from sprinkler heads. The mower and sprinklers should NOT work simultaneously. Time the mower so that it works at a different time from sprinklers.
8. NEVER allow children to touch the power supply unit, charging station, blades, the battery compartment, or any parts with gaps such as the wheels.

9. To connect the peripherals only to a supply circuit protected by a residual current device (RCD) with a tripping current of not more than 30mA.

2.1.3 Mowing

1. While operating and as well while approaching the mower, take sufficient precaution to keep balance at all times particularly on slopes and wet grass. Do not operate the mower in a rush.
2. When operating the machine with the hand controls, do not operate the machine barefoot or in open-toed sandals. Always wear sturdy shoes and long pants.
3. When operating manually, it is recommended to use low speed and keep the mower moving slowly and steadily.
4. Avoid mowing in bad weather conditions especially when there is a risk of lightning.
5. If the mower vibrates abnormally or makes an abnormal sound or signals an alarm, press the STOP button immediately.
6. DO NOT allow children to be in the vicinity or play with the machine when it is operating.
7. DO NOT lift the mower in operation. DO NOT ride on the mower.
8. DO NOT mow on areas with slopes steeper than the maximum incline inside the working area (45%), as well as the boundary (15%).
9. DO NOT touch moving hazardous parts before they have come to a complete stop.

2.1.4 Safe Usage

1. DO NOT operate(including charging mode) the mower outside the temperature limits: 3–45°C (37.4–113°F), because low/high temperatures can decrease mower performance and even lead to accidents.
2. DO NOT place anything on the mower or the charging station.
3. It is recommended to conduct regular maintenance of the mower by an adult.
4. Regularly check the warning devices to ensure they are effective. These devices include the buzzer and LED lights on the mower, and the lights on the charging station.
5. Before charging, please read How to Charge in To set the charging station. Improper use may cause electric shock, overheating, or leakage of corrosive liquid.
6. It is recommended to inspect the moweri charging station, power cord and extension cord every six months for signs of damage or aging. If the mower and charging station are faulty, or the power cord and extension cord are damaged, please do not use the mower and contact the after-sales personnel for after-sales maintenance.

2.1.5 Turn Off the Mower by Pressing and Holding the Power Button

1. Before clearing a blockage.
2. Before checking, cleaning.
3. Before storage.
4. If the machine vibrates abnormally (stop and check immediately).
5. After striking a foreign object, inspect the machine for damage and get advice on necessary repairs from your after-sales service.
6. If the machine starts to vibrate abnormally, and to check for damage before restarting.

2.2 Maintenance

1. Please wear gardening gloves when handling or working near the sharp blades.
2. Before working on the charging station or power supply, remove plug from mains.
3. Clean the exterior of the machine. Remove all grass and debris, especially from the blade disc shield.
4. Turn the mower upside down and clean the blade area and the swivel castors regularly. Use a stiff brush or water to remove compacted grass clippings.
5. Make sure all nuts, bolts and screws are tight to ensure safe working with the garden tool.
6. Periodically visually inspect the machine and replace worn or damaged parts for safety.
7. Ensure that only official replacement parts are used.
8. Replace all blades and bolts as a set as required.
9. If it was need to replace the battery, open the battery holder with symbol pointing.

2.3 Storage

1. Before storage, please charge the battery to 80% or higher before turning off the mower. To do this, press and hold the power button for 15 seconds until the mower beeps. This prevents over-discharge, which can cause permanent damage.
2. Store in a cool and dry place indoors.
3. Keep the mower, charging station and power supply away from heat sources (such as stoves, radiators, etc.) or chemicals.
4. Protect the power supply from moisture and keep it in a well-ventilated place.
5. Store the mower only within a temperature range between -20°C and 60°C. As an example, do not leave the mower in the car in summer.

2.4 About Battery

1. Do not open the battery compartment. There is a sign pointing out the position of battery, but it is not recommend open it. There is a risk of short-circuiting.
2. Protect the battery against heat(e.g. against continuous intense sunlight), fire, water, and moisture. There is a risk of explosion.
3. Keep any unfitted battery away from 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.
4. In case of damage and improper use of the battery pack, vapours may be emitted. Ventilate the area and seek medical help in case of complaints. The vapours can irritate the respiratory system.
5. The battery can be damaged by pointed objects such as nails or screwdrivers or by force applied externally. An internal short circuit can occur and the battery can burn, smoke, explode or overheat.
6. If used incorrectly or if the battery is damaged, flammable liquid may be ejected from the battery. Contact with this liquid should be avoided. If contact accidentally occurs, rinse off with water. If the liquid comes into contact with your eyes, seek additional medical attention. Liquid ejected from the battery may cause irritation or burns.
7. Do not short-circuit the battery. There is a risk of explosion.
8. Use only original battery packs intended specifically for the machine. Use of any other battery packs may create a risk of injury and fire.

9. Ensure the robot has power off before inserting battery. Inserting the battery pack into machines with power on can cause accidents.
10. The robot will operate (including charging mode) between 3°C and 45°C. If the battery temperature is outside this range, the APP will display a message and the robot will not leave the charging station. If operating, the robot will return to the charging station or stay in place.
11. Recharge only in the original charging station. This appliance contains batteries that are only replaceable by skilled persons.

2.5 Intended Use

1. The mower is intended for domestic lawn mowing.
2. Do not operate the mower indoors.
3. Do not use the mower for any other purpose because of the increased risk of accidents and damage to the mower.
4. Never attempt to modify the mower in any way since this may result in accidents or damage to the mower.

3. Regulatory Information



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Machinery Directive 2006/42/EC, the Radio Equipment Directive 2014/53/EU, and the RoHS Directive 2011/65/EU.



The crossed-out waste bin (symbol) means that you are legally required to dispose of this device separately from unsorted municipal waste. Disposal via residual waste or the yellow bin is prohibited. If the products contain batteries or accumulators that are not permanently installed, these must be removed before disposal and disposed of separately as batteries.



This symbol means: This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point.

4. Declaration of Conformity

The full text of the DECLARATION OF CONFORMITY is available at the following web link: <https://www.anthbot.com/pages/doc-list>

5. Recycling and End-of-life Disposal

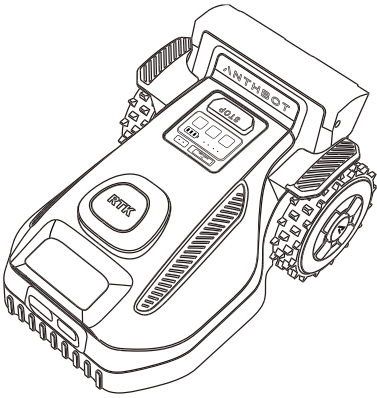
1. Owners of old equipment may hand them in via the return or collection options for old equipment set up and provided by the public waste disposal authorities, so that proper disposal of the old equipment is ensured. You may, for example, hand in old equipment free of charge at the collection points of public-law waste disposal companies (e.g. municipal recycling centres) or at the take-back points of manufacturers and distributors set up in accordance with the ElektroG (Electrical and Electronic Equipment Act).
2. WARNING: DO NOT dispose of this product in a landfill, by incineration, or by mixing with household trash. Danger or serious injury can occur because of the electrical components.
3. Data Protection: We point out to all end users of waste electrical and electronic equipment that you are responsible for deleting personal data on the old equipment to be disposed of.

6. Product Introduction

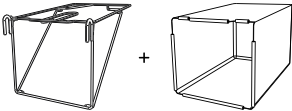
6.1 What's in the Box

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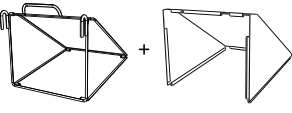
Robot lawn mower



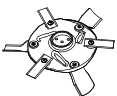
Accessories



Grass bag



Deflector



Mulching disc+Blade



Standard blade (x3)
Fixing screw (x3)

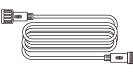
RTK installation kit



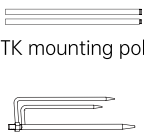
RTK reference station



RTK power cord

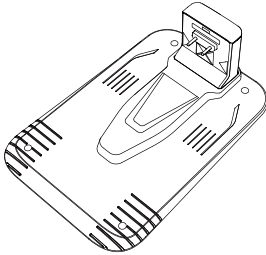


RTK power extension cable



RTK mounting pole
RTK tripod fixing stake

Charging Station And Installation Kit



Charging station



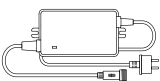
x15
Peg



x6
Fixing screw



Charging station adapter extension cable



Charging station adapter



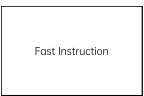
Hex wrench (6mm)



Safety key
x2



Screwdriver



Fast instruction

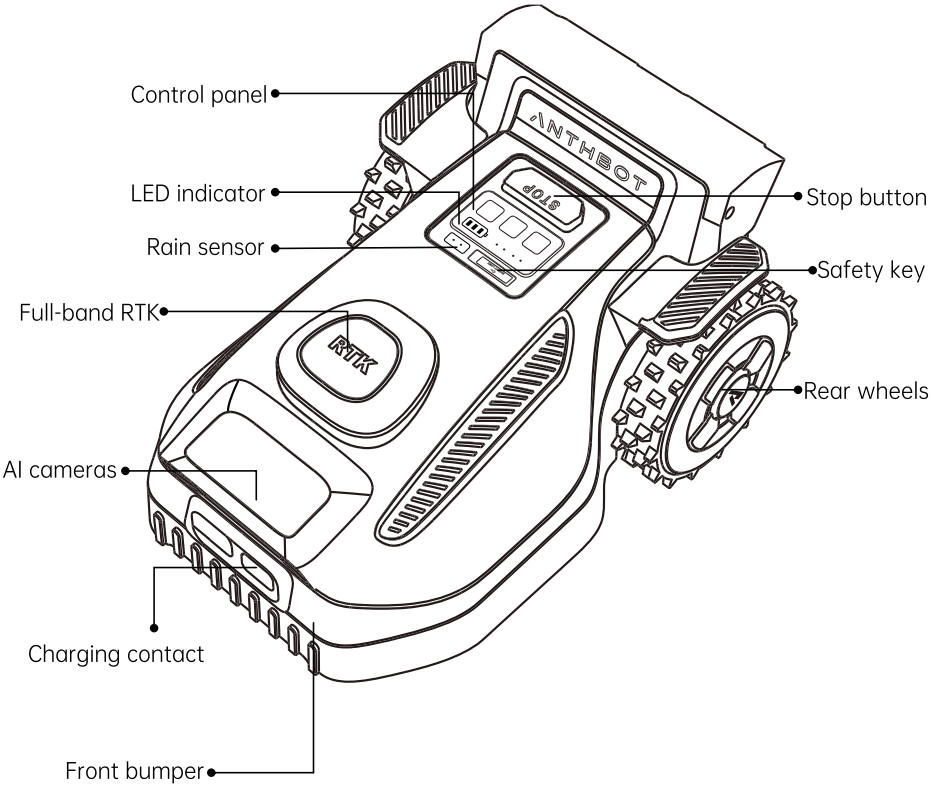


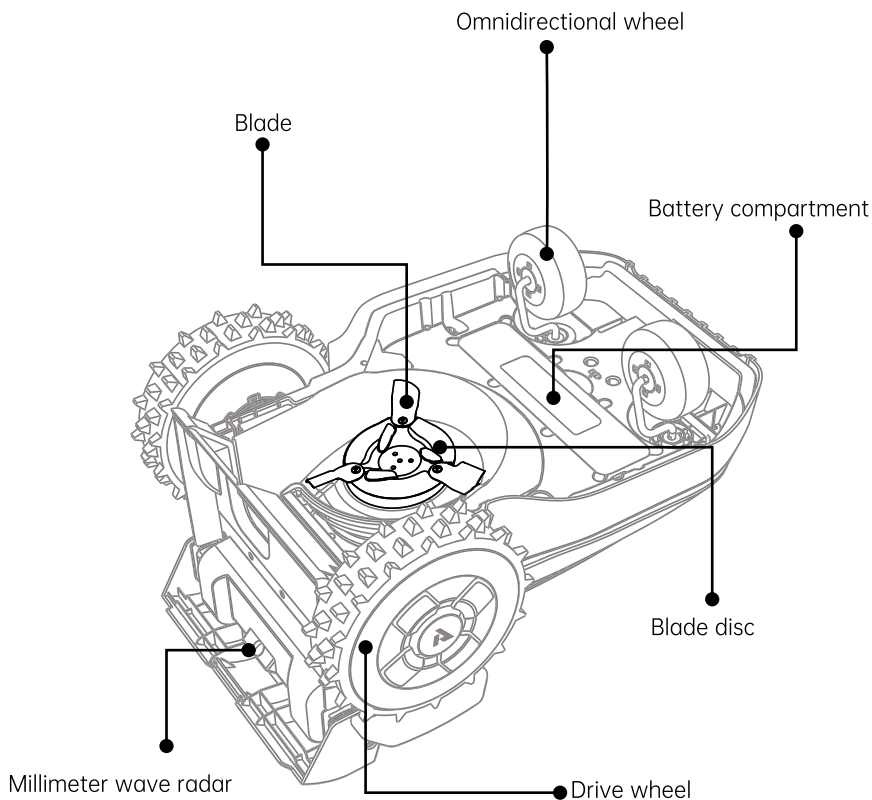
Instruction manual

6

6.2 Product Overview

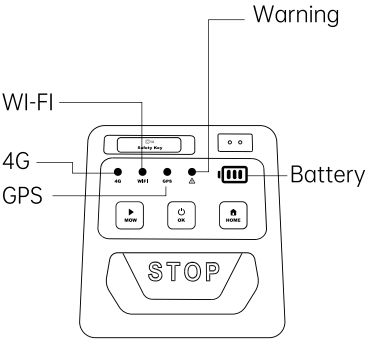
6.2.1 Robot Lawn Mower





1. Blade: The blades can rotate freely after being attached to the blade disc. When mowing, the spinning blade disc will generate centrifugal force to keep the blades pointing outside so that the blades can cut grass. When hitting an obstacle, the blade will turn inside.
2. Blade disc: Blade disc height adjustment through ANTHBOT App.
3. NOTE: If the mower falls into water, take it out immediately and put the mower right side up to drain it. Never submerge the mower in water, otherwise, the components may be damaged and the Limited Warranty will be voided.

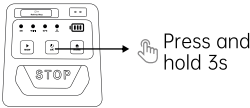
Mower indicators and control panels



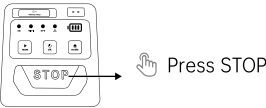
Indicator	Indicator
4G	Solid: 4G normal Flashing: 4G unavailable Off: 4G function not enabled
WIFI	Solid: WiFi normal Flashing: WiFi unavailable Off: WiFi disconnected
GPS	Solid: RTK signal normal Flashing: LoRa pairing Off: No signal at the machine
Warning	Solid: Locked Flashing: Error not cleared Off: No error and unlocked
Battery level	Full charge is 100%; if the last bar flashes, recharging is required

Note: If the mower is in lock status, please insert the safety key first.

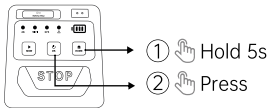
Power on/off



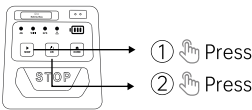
Stop mower operation



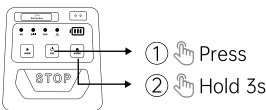
Enter ACC Mapping Mode



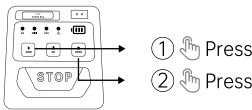
Start global mowing



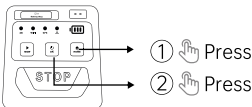
Start area mowing



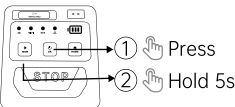
Remove the error reporting operation



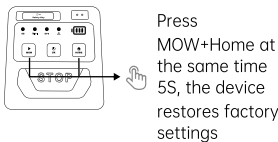
Mower returns to the charging station



Enter Lora Mode



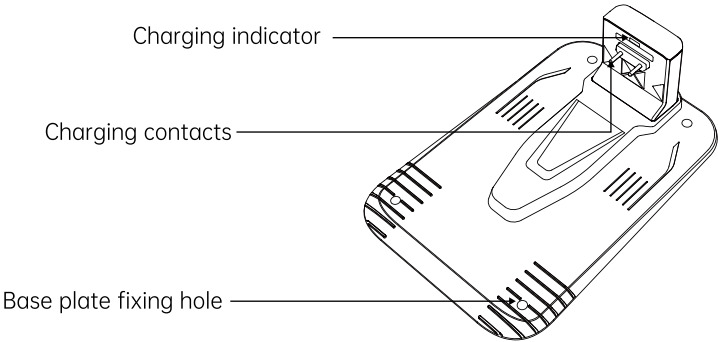
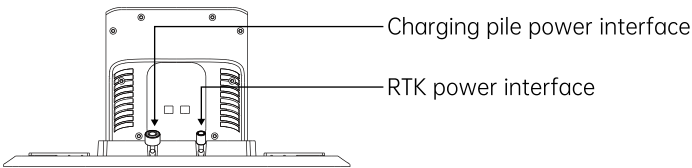
Restore factory settings



Note: To unbind the device and delete local data, please perform a factory reset in the APP.

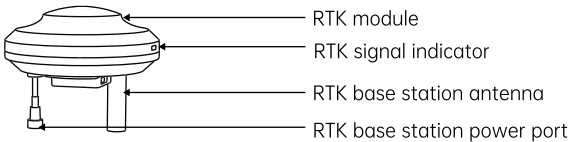
6.2.2 Charging Station

EN



Indicator	Status	Description
Charging station LED indicator	Solid white	Charging station standby
	Flashing green	Charging
	Solid green	Fully charged
	Solid yellow	Charging station updating

6.2.3 RTK



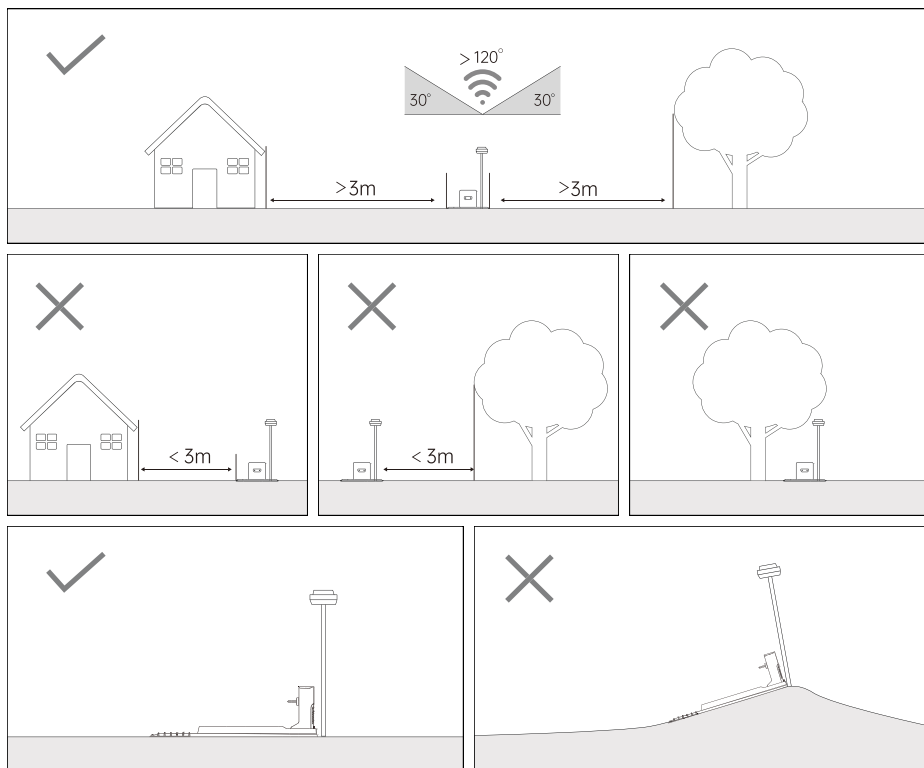
Indicator	Status	Description
RTK signal indicator	Red	Powered on
	Flash red	Matching
	Green	RTK signal stabilized
	Flash green	RTK signal instability
	Breath green	Upgrading

7. Installation

7.1 RTK Base Station Installation Environment Requirements

To ensure RTK signal stability, please place the RTK base station in an open area without obstruction. Avoid areas under trees, eaves, or surrounded by multiple buildings that may cause obstructions. The following are recommended usage scenarios for installation: Install the charging station on a soft and flat surface. When placed outside, the charging station and the lawn should be kept at the same level. In order to ensure that the antenna can receive good satellite signals, please choose a suitable location to install the charging station and antenna:

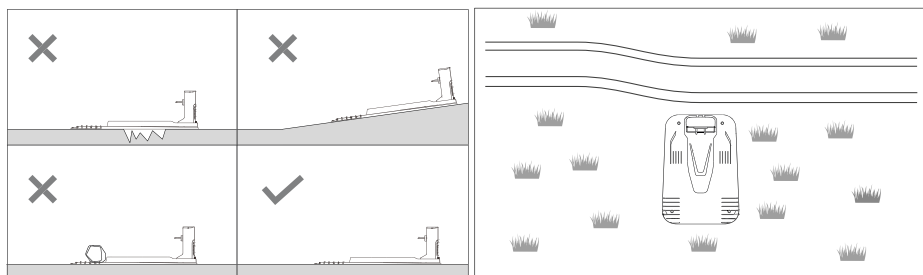
1. Remain a certain distance away (greater than 3 m) from houses, trees and walls.
2. Install the charging station and antenna in an open space with nothing blocking the signal (for example, the tree canopy or the sunshade umbrella), where the antenna has a clear sky view that at least 120° of the sky is unobstructed.
3. Please place the charging station on a flat non-hardened ground with the antenna upright. Do not install the antenna at an angle.
4. To ensure smooth docking, leave a minimum of 10 cm at the back of the charging station and 1 m at the front.
5. Stay away from sprinkler heads, fountains or other outdoor water systems.
6. Stay away from substations, generators, water pump stations and air conditioners.



7.2 Charging Station Installation Environment Requirements

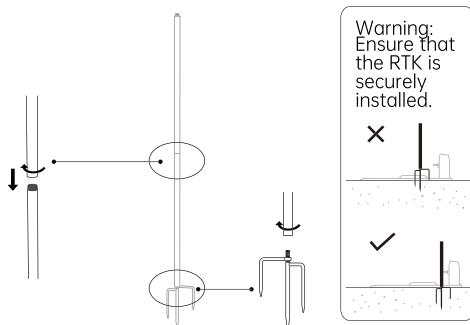
Here are some examples to clearly illustrate correct and incorrect setups:

1. Place the charging station on a flat surface near a power outlet and in an area with a strong Wi-Fi signal.
2. Do not install the charging station in the corner of an L-shaped building or a narrow path between two buildings.
3. There should be no obstacles or other objects between the charging station and the docking point.
4. The charging station base plate should not be bent or tilted.

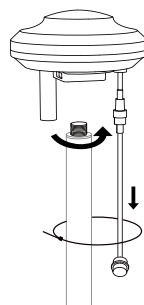


7.3 Installation of Charging Station and RTK Base Station

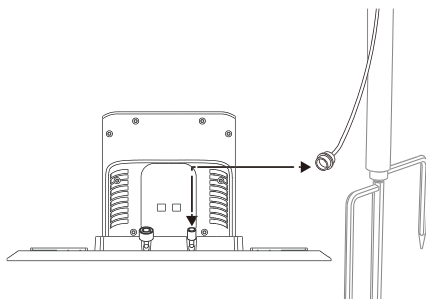
- Assemble two mounting poles and the tripod ground stake.
- Insert the RTK tripod into the ground and keep it upright.



- Install the RTK reference station on the mounting pole.
- Connect the RTK power port to the power extension cable.



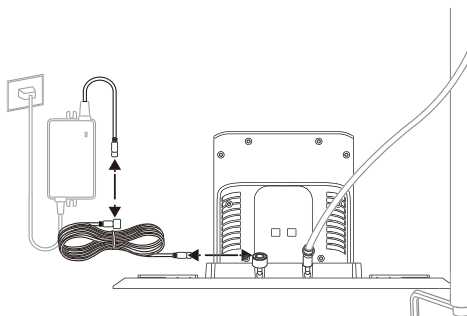
- Connect the RTK power extension cable to the charging station power port.



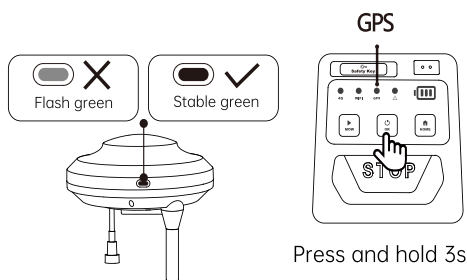
- Connect the charging station power interface to the adapter, then plug it into a power outlet. Use a power extension cable if necessary.

Note:

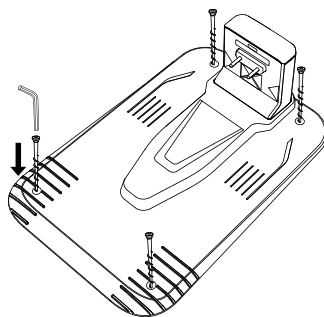
- The indicator on the charging station remains solid white when powered.
- Please place the adapter in a dry location where it will not be submerged in water.



- Please check that the signal indicator on the RTK base station is green and that the GPS signal indicator on the robot is lit. If these indicators are off or flashing, please relocate the equipment to a suitable open environment with a stable signal for installation and operation.



- Fix the charging station on a horizontal surface with four fixing screws, ensuring the charging station remains level.

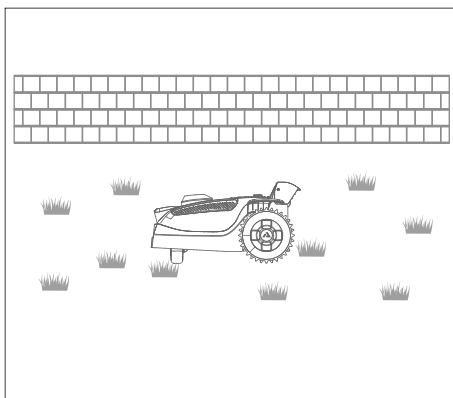
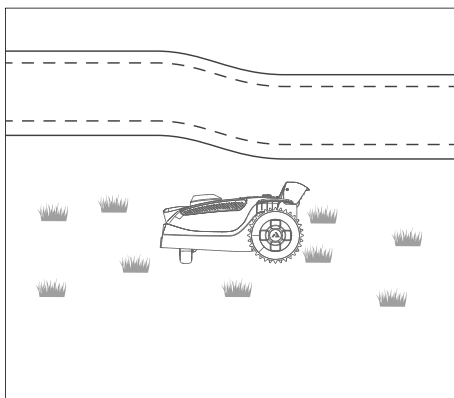
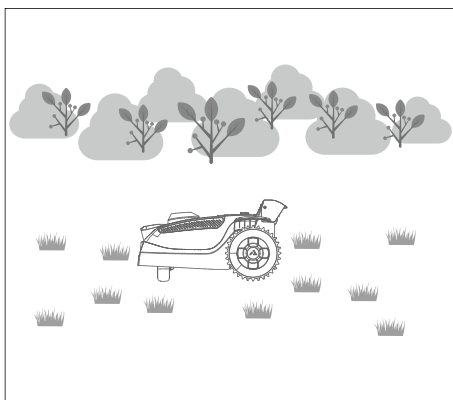
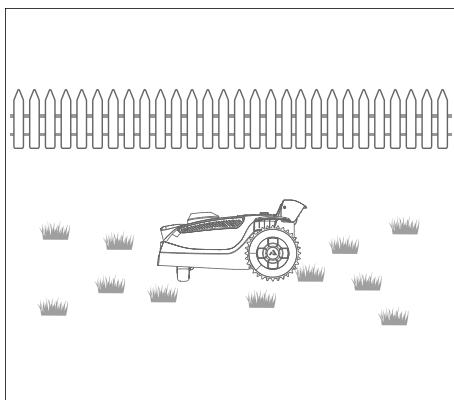


Warning:

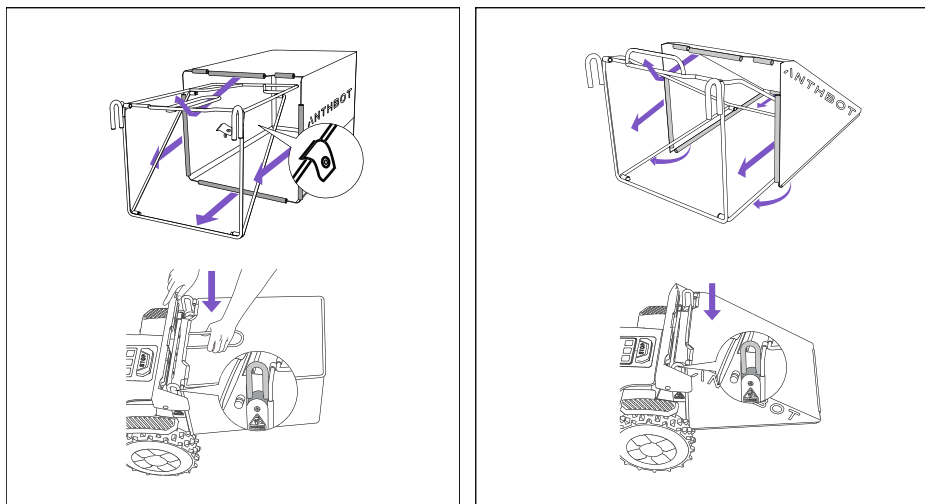
1. Make sure the RTK is securely mounted.
2. Create a map for the first time. Please refer to the APP operation guide for creation.
3. After the RTK base station is moved, you need to recreate the map.
4. Move the mower to the charging station and prepare for operation.
5. Please use the APP No-go zone function to mark the dangerous area to prevent the device from going astray.
6. When using automatic map creation, please make sure your lawn has clear boundaries.

Clear boundary description:

1. Walls: Walls are the most common border, which can be brick walls, fences, metal fences, etc., usually through sensor detection or visual identification to determine the boundary.
2. Buildings: Buildings such as houses, huts, garages can also serve as obvious boundaries on the map.
3. Trees and shrubs: Large trees or dense bushes can serve as borders because they are not usually crossed by robot lawn mower.

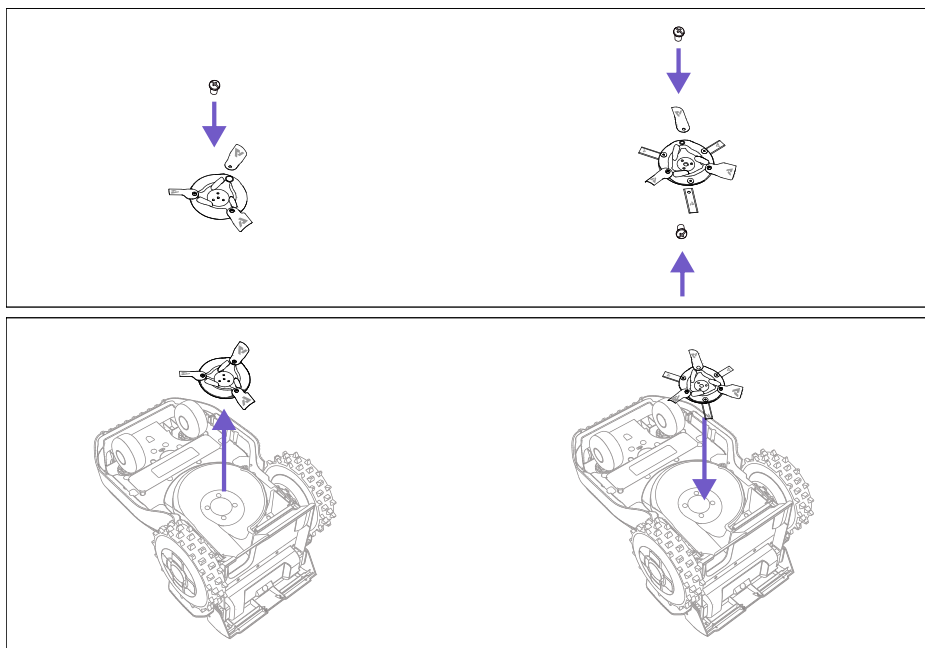


7.4 Grass Bag and Deflector Assembly Instructions



Note: Please assemble the grass bag and deflector strictly according to the requirements. Failure to do so may pose a risk during operation.

7.5 Blade and Blade Disc Installation Instructions



Note: To collect grass clippings and fallen leaves, use the standard blade and the grass bag. To mulch the grass clippings onto the lawn, use the mulching blade and the deflector.

8. Mower Operation Instructions

8.1 Preparation

1. Read and understand the safety instructions before operation.
2. To collect grass and sweep leaves, ensure the standard blade and the grass bag are properly installed; for mulching, ensure the mulching blade and the deflector are properly installed.
3. The charging pile and RTK reference station are correctly installed.
4. Ensure the device is docked at the charging station.
5. Ensure the safety key is installed on the device. The machine cannot start without the safety key.
6. Ensure a good Wi-Fi or hotspot signal.
7. Keep your phone's Bluetooth turned on.
8. It is recommended that you mow your lawn once with a conventional lawnmower before installing and before the first mowing of the new season and whenever the grass would be higher than 10 cm/4 in.
9. Please first clear branches, stones, and other foreign objects from the lawn.

8.2 Download the ANTHBOT App

ANTHBOT APP can be downloaded from Apple APP Store or Google Play. Or scan the QR code to download and install ANTHBOT APP.

Follow the APP prompts to add the device.



8.3 Mower Usage

1. Follow the APP instructions to create a map.
2. When grass clipping exceeds 3 cm in length, use the standard blade and grass bag to mow. The mower will automatically collect the clippings and unload them at the user-set disposal area.
3. When using mulching mode, please use the mulching blade and deflector. The cut grass clippings will be automatically spread back onto the lawn.
4. When collecting fallen leaves, please use the standard blade and grass bag. The mower will automatically collect the leaves and dump them in the user-designated dumping area.

9. Product Specifications

Product name: ANTHBOT Robot Lawn Mower Type/model: N8/N*		Silent mode sound data: Measured Sound Power Level L_{WA} : $\leq 76\text{dB(A)}$, K_{WA} : 3dB(A) Sound Pressure Level L_{pA} : 68dB(A) , K_{pA} : 3dB(A) Standard mode sound data: Measured Sound Power Level L_{WA} : $\leq 83\text{dB(A)}$, K_{WA} : 3dB(A) Sound Pressure Level L_{pA} : 75dB(A) , K_{pA} : 3dB(A)	
Wireless module		Frequency bands	Max. signal transmit power
WiFi	Wi-Fi IEEE 802.11b/g/n	2.4 GHz (2400–2483.5 MHz)	$\leq 19\text{dBm}$
	Wi-Fi IEEE 802.11a/n	5 GHz (5150–5850 MHz)	$\leq 17\text{dBm}$
Bluetooth		2.4 GHz (2400–2483.5 MHz)	$\leq 8\text{dBm}$
LTE (EU)	Band 1	1920–1980 MHz	$\leq 25\text{dBm}$
	Band 3	1710–1785 MHz	$\leq 25\text{dBm}$
	Band 5	824–849 MHz	$\leq 25\text{dBm}$
	Band 7	2500–2570 MHz	$\leq 25\text{dBm}$
	Band 8	880–915 MHz	$\leq 25\text{dBm}$
	Band 20	832–862 MHz	$\leq 25\text{dBm}$
	Band 28	703–748 MHz	$\leq 25\text{dBm}$
LTE (US)	Band 2	1850–1910 MHz	$\leq 25\text{dBm}$
	Band 4	1710–1755 MHz	$\leq 25\text{dBm}$
	Band 5	824–849 MHz	$\leq 25\text{dBm}$
	Band 12	699–716 MHz	$\leq 25\text{dBm}$
	Band 13	777–787 MHz	$\leq 25\text{dBm}$
	Band 66	1710–1780 MHz	$\leq 25\text{dBm}$
WARNING: Only use the supply unit provided with this appliance.			
N8/N*	DZ180AWL4200400V / DZ180AWL4200400U / DZ180AWL4200400S / DZ180AWL4200400B FY1694204000E / FY1694204000U / FY1694204000S / FY1694204000B		"*" can be 0-9 or A-Z or blank, which is only for marketing purposes.

10. Common Fault Issues Fault Messages

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Error Code	Message	Cause	Action
E1XX (communication related)	E101 RTK abnormality	RTK module communication timed out and failed to start	Try restarting. If the error persists, please contact customer service.
	E102 Lora communication abnormality	a. The base station power supply failed to work properly b. There is an obstruction between the host and the RTK base station	a. Please check whether the power supply is normal. Wait about 3 minutes after re-powering on before operation b. Please check whether the host and base station are blocked
	E103 RTK calibration failed	a. The current device is in an obstructed area b. The device calibration action failed to complete	a. Please check whether the device is in the obstructed area and make sure the signal indicator is green. b. Try to restart. If the error persists, please contact customer service
	E104 Lora pairing error	Lora is not paired	Please refer to the detailed instructions (electronic file) for pairing operations.
	E105 Algorithm board error	Communication Error	Retry, restart the machine, or contact customer service.
	E106 System communication error	Communication Error	Please restart or perform a factory reset. If the issue persists, contact customer support.
E2XX (sensor related)	E202 IMU data initialization abnormality	The equipment is initialized abnormally or the machine is not placed on a level surface when started	Please keep the machine level and restart the device. If the error still occurs, please contact customer service
	E203 Rain detection sensor abnormality	The rain detection sensor is dirty or damaged	Try to wipe or clean the rain detection sensor. If the error still occurs, please contact after-sales customer service

Error Code	Message	Cause	Action
E2XX (sensor related)	E204 Device suspended	The equipment is lifted or sunk during operation	Please move the device to a safe area and restart
	E205 Blade falls off	a. The blade is not installed firmly enough and is loose, causing it to fall off. b. The blade breaks when it cuts the hard ground.	Please turn the robot off and check blades whether loose or missing. Tighten the blade screws after replacing the new blade. Please pay attention to safety during operation.
	E206 Millimeter radar sensor warning	1. Millimeter wave radar sensor obstruction (soil/debris). 2. Missing metal plate at the bottom of the grass bag.	Please clean any dirt from the millimeter wave radar sensor area and ensure the metal plate at the bottom of the grass bag is properly installed. If the metal plate is missing, please contact after-sales customer service.
	E210 Grass bag opening abnormal	Grass bag open position detection sensor abnormal	Please check if the grass bag is fully opened, and try using the dump function again after restarting the device. If the problem persists, please contact customer service.
	E211 Grass bag closing abnormal	Grass bag close position detection sensor abnormal	Please check if the grass bag is fully closed, and try using the dump function again after restarting the device. If the problem persists, please contact customer service.
	E212 Grass bag presence detection abnormal	The grass bag presence detection sensor is damaged	The grass bag is not detected. If it is installed correctly, please contact customer support.
	E213 Deflector presence detection abnormal	The deflector presence detection sensor is damaged	The deflector is not detected. If it is installed correctly, please contact customer support.
E3XX (path-dependent)	E301 Recharge failed	a. There are obstacles around the charging station or tall grass near the charging pile b. The charging electrode is in poor contact c. The power is not enough to support the charging pile d. The charging pile is not powered on e. There is dirt on the lens	a. Please clear the obstacles and tall grass around the charging station and try to recharge again b. Please check whether the charging pole is dirty. If it is dirty, please clean it and try to recharge again c. Please install the charging pile in the middle boundary of the lawn area as much as possible d. Please check whether the power supply of the charging pile is connected to ensure that the power supply is normal e. Please wipe the lens clean to avoid affecting the recognition of the charging pile

Error Code	Message	Cause	Action
E3XX (path-dependent)	E302 Machine trapped	a. The equipment is stuck in a pit and cannot be rescued b. The equipment is in a high grass area c. The equipment is working in a small corner or complex area, resulting in the equipment being unable to be rescued	a. Please move the device to a safe working environment before starting b. Please trim the tall grass to less than 7cm before cutting c. Confine dangerous and easily trapped scenes to restricted areas
	E303 Ramp start	a. The equipment is started on a slope b. The charging pile is installed at an angle	a. Please move the device to a level surface and restart the device b. Please install the charging station on a level surface
	E304 Reposition failed	RTK signal is poor and the device does not work within the map range	Please put the device on the mobile charging station and restart
	E305 Positioning signal abnormality	a. The device is not within the signal coverage area and is beyond the signal range b. The device is working in a blocked area	a. Make sure the device is working within the map boundary b. Check whether the RTK base station and device are blocked, and do not work on rainy days
	E306 Device out of bounds	a. The device is not within the working area of the map boundary b. The map is offset	a. Please move the device within the map boundary and restart b. Please recreate the map and try to restart
E4XX (motor related)	E400 Left wheel motor abnormality	Left wheel motor stuck or open circuit	Please check if the left wheel motor is stuck. If not, please restart the device. If the error is not eliminated, please contact customer service.
	E410 Right wheel motor abnormality	Right wheel motor stuck or open circuit	Please check if the right wheel motor is stuck. If not, please restart the device. If the error is not eliminated, please contact customer service.
	E420 Lifting motor abnormality	Lifting motor stuck or open circuit	Please check if the lifting motor is stuck. If not, please restart the device. If the error is not eliminated, please contact customer service.
	E430 Cutter motor abnormality	Cutter motor stuck or open circuit	Please check if the lifting motor is stuck. If not, please restart the device. If the error is not eliminated, please contact customer service.
	E440 Dumping motor abnormality	Dumping motor fault, e.g., open or short circuit.	Please check if any foreign objects are stuck in the grass bag. If not, please restart the device and then activate the dumping function. If the error persists, please contact customer service.

Error Code	Message	Cause	Action
E5XX (battery related)	E501 Charging abnormality	Abnormal charging protection	Please recharge the device. If the error persists, please contact customer service.
	E502 Battery temperature too high	Ambient temperature too high	Please ensure that the device is working in a normal working environment. The recommended working temperature of the device is 5 to 40 degrees Celsius.
	E503 Battery temperature too low	Ambient temperature too low	Please ensure that the device is working in a normal working environment. The recommended working temperature of the device is 5 to 40 degrees Celsius.
	E508 Battery not installed	Battery not installed or connection abnormal.	Please power off the robot, open the battery compartment cover, and check if the battery is installed. Disconnect and reconnect the battery cable, then securely install the battery and power the robot back on. If the problem persists, please contact customer service.
E6XX (camera related)	E600 Front camera abnormality	The camera is dirty or blocked(rain, mud, etc.)	Please recharge the device. If the error persists, please contact customer service.
	E601 Front left camera abnormality		
	E602 Front right camera abnormality		
	E605 Front left camera abnormality	Camera module initialization is abnormal	Please restart the device. If the error persists, please contact customer service.
	E606 Front right camera abnormality		
E7XX (other abnormalities)	E700 Triggering Safety Protection	a. The emergency button (STOP) is triggered during operation b. It is lifted during operation	Please press the MOW button first and then the OK button to release the security protection before performing the operation
	E703 Safety key removed	Safety key removed	Reinstall the safety key and press MOW+OK to start mowing.

11.Disclaimer

We provide customers with after-sale services, excluding the following circumstances:

1. Crashes damage caused by non-manufacturing factors, including but not limited to, user errors.
2. Damage caused by unauthorized modification, disassembly, or shell opening not in accordance with official instructions or manuals.
3. Damage caused by improper installation, incorrect use, or operation not in accordance with official instructions or manuals.
4. Damage caused by a non-authorized service provider.
5. Damage caused by unauthorized modification of circuits and mismatch or misuse of the battery and charger.
6. Damage caused by users which do not follow instruction and manual recommendations.
7. Damage caused by operation in bad lawn conditions(i.e., large areas of floods without setting no-go zones, a lot of stones covering on it, etc.)

12.Note

FCC Requirement

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, and(2)this device must accept any interference received, including interference that may cause undesired operation. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. 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. 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.

(3)FCC 20cm Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

13.About the Manual

Please update the ANTHBOT app to the latest version to obtain the most recent user manual. The table of contents can be found in the app under Settings > App > Service and Support.

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The features and content described in this manual are related to the model of the product that you have purchased, market, and software version. For the latest feature updates, please refer to the release notes.

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