

Section	Page
TABLE OF CONTENTS	2
SPECIFICATIONS	3-5
IMPORTANT SAFETY INSTRUCTIONS	6-10
SYMBOLS	11-13
KNOW YOUR ROBOTIC MOWER	14-15
SET UP	16-22
ASSEMBLY	23-28
OPERATION	29-49
MAINTENANCE	50-53
ENVIRONMENTALLY SAFE BATTERY DISPOSAL	54
TROUBLESHOOTING	55-62
LAWNMASTER® WARRANTY	63
EXPLODED VIEW	64
PARTS LIST	65
NOTES	66-67

SPECIFICATIONS

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DIMENSIONS

Length	21.65" (55 cm)
Width	14.88" (37.8 cm)
Height	9.65" (24.5 cm)
Weight (Without 4.0 Ah Battery)	18.19 lbs (8.25 kg)

MOWING

Voltage	21.6 V ---
Cutting System	3 Pivoted Cutting Blades
Blade Motor Speed	3400 RPM
Cutting Width	7" (18 cm)
Cutting Height Adjustment	1.2"-3.1" (30-80 mm, 6 Positions)
Narrowest Possible Passage	≥3.3' (1 m)
Power Consumption during Cutting	43 W±20 %
Maximum Slope for Cutting Area	20°
Working Capacity: Auto charging Mode (Depending on Product Specification)	Up to 1/6 acre
Working Capacity: Drop and Mow (Using a single battery once)	861 sq.ft
Working Capacity: Drop and Mow (With repeated uses)	1615 sq.ft
Wi-Fi: Operating Frequency Band	2400 MHz~2483.5 MHz
Wi-Fi: Maximum Transmission Power	19 dBm
BLE: Operating Frequency Band	2400 MHz~2483.5 MHz
BLE: Maximum Transmission Power	10 dBm
GNSS: Operating Frequency Band	GPS: L1, L5 BDS: B1I GLONASS: G1 Galileo: E1, E5a
GNSS: Maximum Transmission Power	Receiving

IP-CLASSIFICATION

Robotic Lawnmower	IPX4
Base Station	IPX4
Power Adaptor	IPX4

ELECTRICAL SYSTEM

Battery Type	24V Max Lithium-Ion, 4.0 Ah
Power Supply	100-240V
Charging Station Current	2.0 A
Power Cable Length	10 m
Charging Period (Battery Fully Discharged)	2 hours

BATTERY PACK

Model No.	24LB4005-CN
Voltage Of Battery	24 V 
Capacity of Battery	4.0 Ah
Battery Type	Lithium-Ion
Weight of Battery	1.54 lbs (0.7 kg)

NOISE EMISSIONS MEASURED IN THE ENVIRONMENT AS SOUND POWER

Sound Power Level (L_{WA}) Measured	65.4 dB(A)
Noise Emissions Uncertainties K_{WA}	3 dB(A)
Sound Power Level (L_{WA}) Guaranteed	68 dB(A)
Sound Pressure Level (L_{PA}) at the Operator's Ear	54.4 dB(A)

The noise emission declarations conforms to EN 50636-2-107:2015

Noise emissions in the environment measured as sound power (LWA) in conformity with EC directive 2000/14/EC. The guaranteed sound power level includes variation in production as well as variation from the test code with 1-3 dB(A).

Sound pressure noise uncertainties KpA, 2-4 dB(A).

About This Product

Thank you for choosing the LawnMaster® VBRM701i4 Plus robotic lawn mower. This mower will independently mow the lawn in a random pattern before returning to the base station to charge the battery. The mower will alternately mow and charge for the working time selected, before returning to the base station to standby until the next scheduled working period. The mower detects grass in order to know where to mow and is also equipped with ultrasonic sensors which detect higher obstacles such as shrubs and fences. For successful operation, the lawn must be defined with flat borders such as paving or raised edges. When the mower does not detect grass or encounters an obstacle, it changes route in a random manner and starts mowing again in a new direction. The mower can be moved around to different lawn areas provided that they are defined as described in this instruction manual.

The mower uses a detachable MX 24V battery which is compatible with all products in the LawnMaster® 24V range. Excessively long or wet grass may impact performance, it is therefore important to maintain a regular mowing schedule to keep on top of growth and development of a neat lawn finish.

This mower can be controlled remotely using our OcuMow® app and requires a Wi-Fi network connection.

First Operation

The VBRM701i4 Plus is designed to detect grass and move into areas it identifies as grass. If the mower cannot see a clear boundary it will continue to move into areas off the lawn and into plants that it may identify as grass. Trimming the lawns edge with a grass trimmer before use will help define a better lawn edge. During first operation on a new lawn, it is important to monitor the robot as it detects edges to see where the boundary definition needs to be improved. Please read the instructions fully, our instructions have been written to help you to get the best results and also provides useful ideas for temporary boundaries as well as examples of how to define a better lawn edge in all seasons.

FOR YOUR SAFETY: CAREFULLY READ AND UNDERSTAND ALL INSTRUCTIONS.

IMPORTANT!

READ CAREFULLY BEFORE USE. KEEP FOR FUTURE REFERENCE

TRAINING

- Read the instructions carefully. Be familiar with the controls and the proper use of the machine.
 - Never allow people unfamiliar with these instructions or children to use the machine. Local regulations may restrict the age of the operator.
 - The operator or user is responsible for accidents or hazards occurring to other people or their property.
 - The operator or user is responsible for informing neighbours about the risks. Keep a safe distance from the machine when operating.
 - If your lawn is open to the street and/or your neighbours, you must be present during the mower's operation to prevent others from accessing your lawn. Alternatively, you must protect / fence your lawn so that others do not access the mower during operation.
 - This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
-



WARNING

The robotic lawn mower can be dangerous if used incorrectly.



WARNING

Never use the robotic lawn mower when people, especially children or pets, are in the cutting area.

PREPARATION

- Ensure that the lawn area is defined as described in the section Preparing the Mowing Area and Defining the Mowing Area.
- Periodically inspect the area where the machine is to be used and remove all stones, sticks, wires, pet toys, and other foreign objects.
- Periodically visually inspect to see that the blades, blade bolts and cutting assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.
- On multi-spindle machines, take care as rotating one blade can cause other blades to rotate.

OPERATION

- Do not leave the machine to operate unattended if you know that there are pets, children or people in the vicinity.
 - Never operate the machine with defective guards, or without safety devices, for example deflectors in place.
 - Do not put hands or feet near or under rotating parts. Do not touch moving hazardous parts before
-

IMPORTANT SAFETY INSTRUCTIONS

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these have come to a complete stop. Keep clear of the discharge opening at all times.

- Never pick up or carry a machine while the motor is running.
- Always switch off the On/Off switch and remove the battery:
 - Before clearing a blockage;
 - Before checking, cleaning or working on the machine.
- It is not permitted to modify the original design of the mower. All modifications are made at your own risk.
- Avoid using the mower and its peripherals in bad weather conditions, especially when there is a risk of lightning.
- Do not use the mower for any purpose other than cutting the lawn.
- In the event of accident or breakdown while the mower is cutting the lawn, immediately press the STOP button.
- Do not put anything on top of the mower. Never allow people or animals to sit on the mower.
- Do not use the mower if the On/Off switch does not work.
- Do not use the mower when a sprinkler system is running. Ensure that the mower and the sprinkler system do not operate at the same time. Do not wash the mower with running water and do not immerse it in water. This product is not waterproof.
- Always switch off the mower using the On/Off Switch when the mower is not in use.
- The robotic lawn mower must never be stored, operated or charged in temperatures below 32°F (0°C) or above 122°F (50°C). This might cause damage to the product or battery.
- Mow only in daylight or in good artificial light. The mower requires good light to correctly identify the lawn area.
- Avoid operating the machine in very long or wet grass.
- Never use the machine in or near explosive and/or flammable environments.
- Do not operate the machine when barefoot or wearing open sandals. Always wear substantial footwear and long pants.
- Always be sure of your footing on slopes.
- Always switch on the motor according to instructions keeping feet away from the blade(s).
- Warning signs shall be placed around the working area of the robotic lawn mower if it is used in public areas. The signs shall have the following text:
Warning! Automatic lawn mower! Keep away from the machine! Supervise children!

MAINTENANCE AND STORAGE

- Keep all nuts, bolts, and screws tight to be sure the machine is in safe working condition.
- Replace worn or damaged parts for safety.
- Only use replacement blades recommended by the manufacturer.
- In the event of coming into contact with electrolytes caused by battery leakage, flush the affected area with water/neutralizing agent for several minutes. Seek medical attention if ingested, or if it comes into contact with your eyes, or if skin irritation persists.
- Servicing of the machine should be according to manufacturers' instructions.
- In case of abnormal vibrations, stop the mower, remove the safety key and the battery pack and check for any damage to the blade. Replace blades in full sets to preserve balance. If the vibration continues, contact Customer Service.
- Use heavy gloves when inspecting or servicing blades.
- Cleaning and maintenance must not be performed by unsupervised children.
- Do not use the mower when the cutting blade is damaged. Replace the cutting blade.
- Use only original equipment and accessories. It is not permitted to modify the original design of the mower. All modifications are made at your own risk.

IMPORTANT SAFETY INSTRUCTIONS

- Always remove the battery pack before storing the mower.
-



WARNING

Do not lift the mower when it is parked in the base station. It can damage the base station and/or the mower. Press STOP button and pull the mower out of the base station before lifting it.



WARNING

Disconnect all connections to the base station (power supply) if there is a risk of a thunderstorm.

TRANSPORTATION

Within the working area:

- Press the STOP button to stop the mower. Use the carry handle to carry the mower. Carry the mower with the blade disc away from the body.

Long distances:

- When transporting your mower over long distances, press the STOP button and turn the mower off using the power button.
- **IMPORTANT!** It is recommended to keep the original packaging to avoid damage during transportation over long distances.

BATTERY SAFETY INFORMATION

- This battery is only compatible with LawnMaster® 24LFC14-ETL, 24LFC02-ETL or 24LSC01-ETL chargers.
- Recharge only with the charger specified by the manufacturer and listed in this manual. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- Do not place battery powered lawn mowers or their batteries near fire or heat. This will reduce the risk of explosion and possibly injury.
- Do not open or mutilate the battery. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed. Fumes may be emitted. In such situations, move to a well-ventilated area, preferably outdoors and seek medical assistance in the event of discomfort.
- Do not dispose of battery packs in fire. They will explode or leak and cause injury. Liquid ejected from the battery may cause irritation or burns.
- Do not crush, drop or damage the battery pack. Do not use a battery pack or charger that has been dropped or received a sharp blow. A damaged battery is subject to explosion. Properly dispose of a dropped or damaged battery immediately.
- Batteries can explode in the presence of an ignition source, such as a pilot light. To reduce the risk of serious personal injury, never use any cordless product in the presence of an open flame. An exploded battery can propel debris and chemicals. If exposed, wash with water immediately.
- Under extreme usage or temperature conditions, battery leakage may occur. If liquid comes in contact with your skin, wash immediately with soap and water. If liquid gets into your eyes, flush them with clean water for at least 10 minutes, then seek immediate medical attention. Following this rule will reduce the risk of serious personal injury.
- When the battery pack is not in use, keep it away from other metal objects like: paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to

another. Shorting the battery terminals together may cause burns or a fire.

- Do not expose a battery pack or lawn mower to fire or excessive temperature. Exposure to fire or temperature above 265°F (130°C) may cause an explosion.
- Do not modify or attempt to repair the lawn mower or the battery pack (as appliance) except as indicated in the instructions for use and care.
- Follow all charging instructions and do not charge the battery pack or lawn mower outside of the temperature range specified in the instructions. Charging improperly or at temperatures outside of the specified range may damage the battery and increase the risk of fire.
- All tool services should be performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.

BATTERY CHARGER

- To reduce the risk of injury, charge only the specified lithium-ion rechargeable batteries. Other types of batteries may burst, causing personal injury or damage.
- Keep cord and charger away from heat to prevent damage to housing or internal parts.
- Do not operate charger with a damaged cord or plug, which could cause shorting and electric shock. If damaged, immediately discontinue use. Replace the charger with the identical unit as listed in the Parts List of this manual.
- Do not use a charger that has been dropped or received a sharp blow.
- Do not disassemble charger. Take it to a qualified service center to check or replace it. Incorrect reassembly may result in a risk of electric shock or fire.
- Do not abuse the charger cord. Never use the cord for carrying, pulling.
- Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock. If the charger cord is damaged, replace the charger with an identical model as listed in this manual.
- A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- Charge the battery at the normal charging temperature between 40°F (4°C) and 100°F (38°C).

CHARGING STATION SAFETY INFORMATION

- Do not use non-rechargeable batteries!
- Do not operate the charging station with a damaged cord or plug, which could cause shorting and electric shock. If damaged, immediately discontinue use. Replace the charging station with the identical unit as listed in the Parts List of this manual. If the power cord for this equipment is damaged, it must be replaced by the manufacturer, a customer service agent of the same or a fully qualified person in order to prevent hazards.
- Operate the charging station only with the appropriate original batteries. Charging other batteries may result in injuries and risk of fire.
- The voltage indicated on the charging station rating plate must correspond to the voltage of the power source.
- Never touch the mains plug with wet hands.

PRODUCT END OF USE

- The mower and its accessories should be recycled correctly at the end of their life to prevent waste of electrical and electronic equipment from ending up in landfill sites, and to protect and improve the quality of the environment.
- Do not dispose of the mower or any other of its parts (including the Power Supply and Base Station) as unsorted municipal waste - they should be collected separately.
- Ask your local distributor/dealer about return and collection systems availability.

IMPORTANT SAFETY INSTRUCTIONS

- Do not dispose of the battery pack in a fire, and do not place used batteries in your household waste.
- Dispose of batteries in accordance with the local regulations where they will be recycled in an environmentally friendly manner.

FCC COMPLIANCE

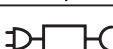
- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - This device may not cause harmful interference, and
 - This device must accept any interference received, including interference that may cause undesired operation.
- **NOTE:** This equipment 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 of the receiver.
 - Consult the dealer or an experienced radio/ TV technician for help.

SAVE THESE INSTRUCTIONS

Refer to them frequently and use them to instruct others who may use this power tool. If you loan someone this power tool, loan them these instructions also.

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the product better and safer.

SYMBOL	DESIGNATION/EXPLANATION
	WARNING - The robotic lawnmower can be dangerous if used incorrectly.
	Read instruction manual before operating the machine.
	WARNING: Beware of thrown objects. Keep bystanders away.
	Remove the battery before working on or lifting the machine.
	Do not ride on the machine.
	WARNING: Do not touch rotating blade. Disconnect battery before maintenance.
	Wait until all moving parts have stopped completely before touching them. The blade may continue to rotate after the machine is switched off, a rotating blade can cause injury.
	Do not wash or immerse the machine in water.
	WARNING! Beware of electric shocks.
	Protection class II (Double insulation)
	Class III machines.

SYMBOL	DESIGNATION/EXPLANATION
	Electrical appliances must not be disposed of with the domestic waste.
	Batteries contain Lithium-ion. Do not dispose of batteries in household waste.
	Do not dispose of battery packs in rivers or immerse in water.
	Do not dispose of battery packs in fire.
	Do not subject the battery to direct sunlight over long periods and do not leave it on or near a heat source (max. 60°C).
	Recycle electrical waste products in an environmentally safe way where facilities exist.
	WARNING: For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance.

The following signal words and meanings are intended to explain the levels of risk associated with this product.

SYMBOL	SIGNAL	MEANING
	DANGER	Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.
	WARNING	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.
	CAUTION	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.
	NOTICE	(Without Safety Alert Symbol) Indicates a situation that may result in property damage.

SERVICE

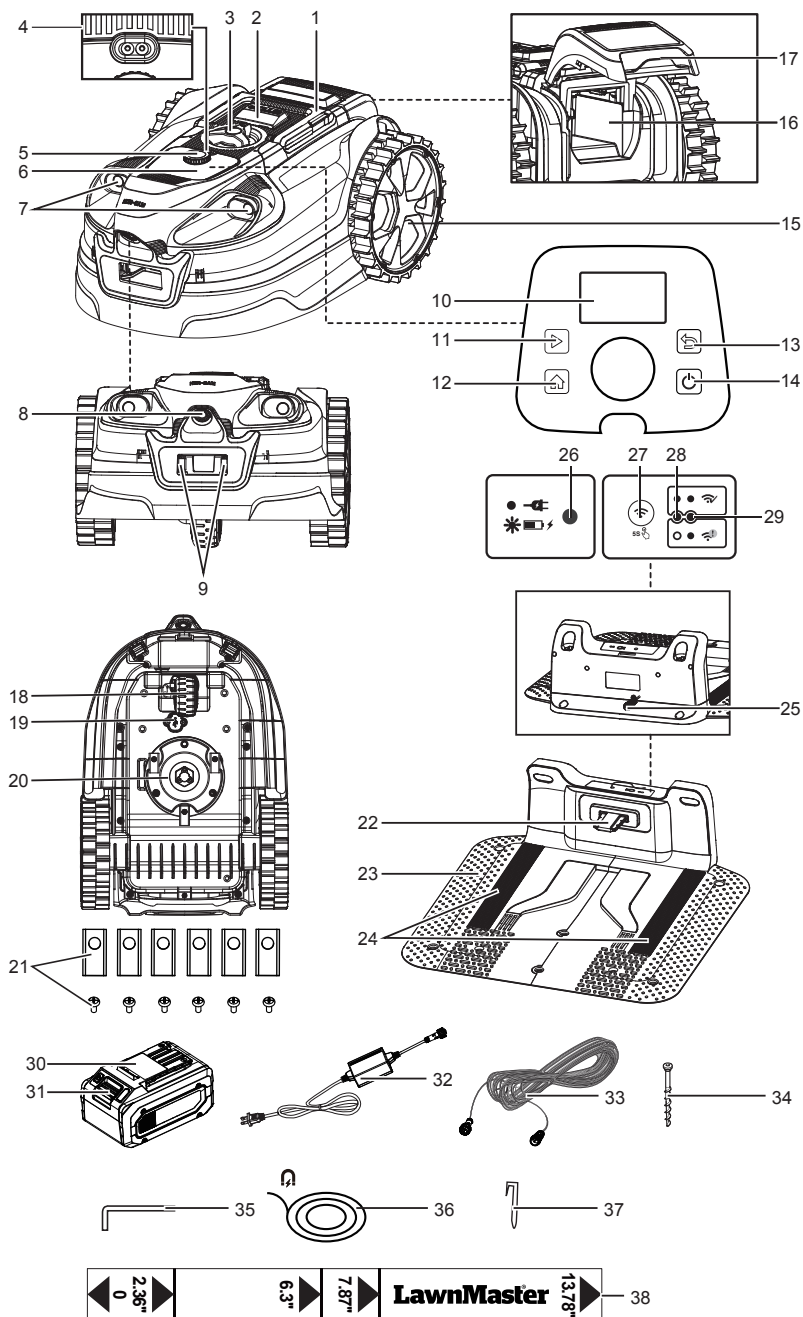
Service requires extreme care and knowledge and should be performed only by a qualified service technician. When servicing, use only identical replacement parts.
For troubleshooting or replacement, please call Customer Service for assistance (Toll free number 1-866-384-8432).

 WARNING

To avoid serious personal injury, do not attempt to use this product until you read thoroughly and understand completely the Operator's Manual.
If you do not understand the warnings and instructions in the Operator's Manual, do not use this product. Call Customer Service for assistance (Toll free number 1-866-384-8432).



EN KNOW YOUR ROBOTIC MOWER



1. Carry Handle
2. STOP Button
3. Cutting Height Adjustment Knob
4. Rain Sensor
5. Selection Dial
6. Control Panel
7. Ultrasonic Object Sensors
8. Grass Detection Camera
9. Charging Strips
10. LCD Panel
11. Start Button
12. HOME Button
13. Back Button
14. On/Off Button
15. Rear Wheel
16. Battery Compartment
17. Battery Compartment Cover
18. Front Wheel
19. USB Port (Covered by Resin Cap)
20. Blade Disc
21. Spare Blade and Screw (X6)
22. Contact Strip
23. Base Station
24. Guide Strips on the Base Station
25. Base Station's Power Cord
26. Charging Indicator on the Base Station
27. Wi-Fi Connection Setting Button
28. Wi-Fi Indicator
29. Signal Indicator
30. Battery Pack
31. Battery Release Button
32. Power Adaptor
33. Extension Cable (32.8 ft / 10 m)
34. Base Station Fixing Screw (X10)
35. Hex Key
36. Magnetic Strip (16.4 ft / 5 m, x 4)
37. Magnetic Strip Peg (X40)
38. Box Lid Measurement Gauge

KNOW YOUR ROBOTIC MOWER

The safe use of this product requires an understanding of the information on the product and in this Operator's Manual as well as a knowledge of the project you are attempting to use. Before use of this product, familiarize yourself with all operating features and safety rules.

UNPACKING

This product has been shipped partially assembled.

- Carefully remove the product and any accessories from the box. Make sure all items listed in the packing list are included.
 - Inspect the product carefully to make sure no breakage or damage occurred during shipping.
 - Do not discard the packing material until you have carefully inspected and satisfactorily operated the product.
 - If any parts are damaged or missing, do not operate the product. Please call Customer Service (Toll free number 1-866-384-8432).
-

**WARNING**

Do not use this product if any parts on the Packing List are already assembled to your product when you unpack it. Parts on the packing list are not assembled to the product and require customer installation. Use of a product that may have been improperly assembled could result in serious personal injury.

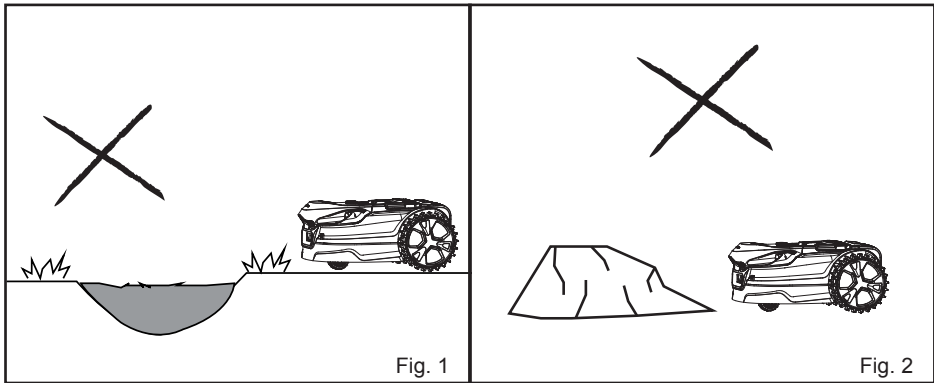
PACKING LIST

- (1) Robotic Mower
- (2) Base Parts of the Base Station
- (1) Upper Part of the Base Station
- (10) Base Station Fixing Screws
- (4) Magnetic Strip (16.4 ft / 5 m)
- (40) Magnetic Strip Pegs
- (6) Spare Blades and Screws
- (1) 24V Max* 4.0 Ah Lithium-Ion Battery
- (1) Power Adaptor
- (1) Extension Cable (32.8 ft / 10 m)
- (1) Hex Key
- (1) Operator's Manual

PREPARING YOUR LAWN

Understanding your lawn will reduce unnecessary mistakes and make the installation process easier and smoother.

- Bare patches and leaves can interfere with the camera operation. Repair dead patches with grass seed.
- Level all surfaces to prevent the mower from becoming stuck (Fig. 1).
- Remove all small loose objects which may damage the blade (Fig. 2).



NOTE: This mower is not designed to cut excessively long or overgrown and neglected areas. Cut grass to a height of 2.36" (60 mm) before use. Do not allow grass to grow excessively long between uses.

ABOUT YOUR ROBOTIC LAWNMOWER

The mower uses a camera and ultrasonic sensors to identify grass and navigate around the lawn. It can:

- Detect grass and well-defined edges such as paving, gravel, and earth.
- Raised edges such as sleepers, fences and walls.
- Find the way home to the charge itself using GNSS positioning and the guide strips on the base station.

It cannot:

- Work at twilight or at night – the camera requires daylight in order to work effectively.
- Work on patchy or dead grass.
- Distinguish between lawn and weedy flower beds.
- Cross boundaries in the lawn such as paths or stepping stones.

The mower can be used in either of two modes:

- Schedule Mode (Refer to page 34-36)
- Drop and Mow Mode (Refer to page 36)

The ultrasonic sensors can be turned off when the lawn is clear of obstacles. In this case, hedges, walls, or other similar barriers in the lawn can be used as the border of the working area.

When the robotic mower detects that there is no grass or encounters an obstacle, it changes route in a random manner and starts mowing again in a new direction. To allow the robotic mower to move freely inside the lawn, the lawn must be properly checked and adjusted so that the robotic mower has enough space for recognizing when there is no grass. Carefully follow instructions listed as below for types of borders/protections that can/cannot be used for defining the working area.



WARNING

This robotic mower generates an electromagnetic field during operation. Under certain circumstances, this field can actively or passively interfere with medical implants. To reduce the risk of serious injury or death, we recommend that people with medical implants consult their physician and the manufacturer of the medical implant before using the robotic lawnmower.

DEFINING THE MOWING AREA

Lawn edges must be clearly defined by flat edging or raised barriers in order for this mower to function properly. Use the provided measurement gauge to ensure the proper distance.

- **Visual boundaries:** need to look different from grass; therefore, changes in color and texture are very effective.
- **Physical boundaries:** help stop the mower when a visual boundary is not possible.
- **Temporary physical boundaries:** can be used where and when needed.

Suitable Boundary Types

■ Paving

The lawn requires a paved or wooden edge of at least 13.78" (35 cm) wide for it to stop safely and change direction.

Paving or wooden edge less than 13.78" (35 cm) wide must be widened or can be used in conjunction with a barrier. See Raised Barrier section below (Fig. 3).

■ Raised barrier (Using ultrasonic sensors)

With the ultrasonic sensors on, a perimeter barrier at a height 6.3" (16 cm) can be used to define the border of the working area. The ultrasonic sensors will detect the barrier, and the mower will change direction.

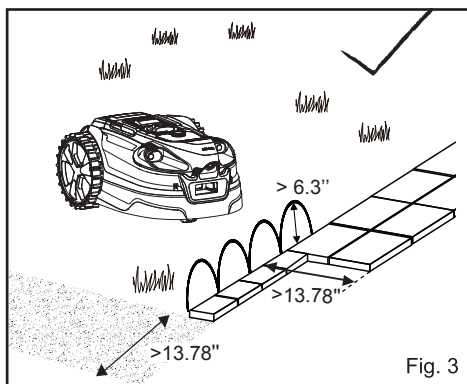


Fig. 3

If an existing barrier is shorter than 6.3" (16 cm), see Raised barrier (Using bump sensor) (Fig. 4).

■ Raised barrier (Using bump sensor)

A raised barrier (min 2.36") that physically obstructs the movement of the mower can also be used. This boundary could be lower than 6.3" (16 cm) and will be undetectable by the ultrasonic object sensors. When the robot meets this low barrier, it will bump off, reverse and turn. This type of boundary may suit your lawn in some areas.

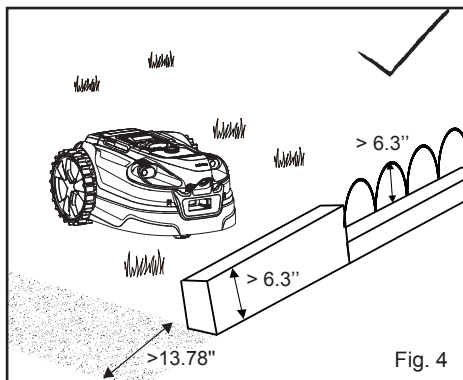


Fig. 4

■ Hedging

With the ultrasonic sensors on, hedges can be used to define the working area (Fig. 5).

NOTE: Foliage is usually recognized as grass by the robotic mower. Therefore, ultrasonic sensors must be always kept on when using hedges as the border of the working area.

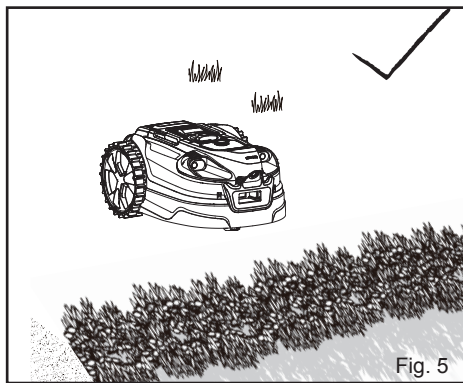


Fig. 5

■ Fine gravel

If fine gravel or small stones are used to border the lawn, make sure the width of the border is more than 13.78" (35 cm) wide and has clear edges (Fig. 6).

NOTE: Never use gravel, stones or similar materials with irregular edges for defining the working area (Fig. 7). Failure to provide clear edges will result in the mower leaving the mowing area and blade damage.

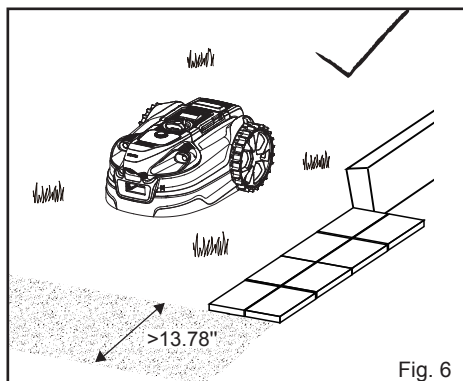


Fig. 6

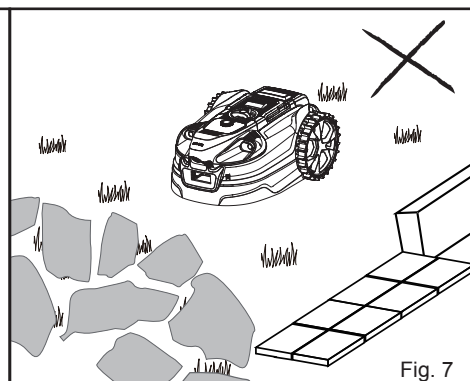


Fig. 7

■ Temporary raised barriers

During first use, while lawn patches are being seeded or seasonal lawn plants such as spring bulbs are in flower, it may be desirable to use a temporary method to protect or define the lawn area for the robot to cut. In this case, garden canes are particularly effective and can be removed later. In spring, you can protect flower bulbs in the lawn from the mower by sinking short canes vertically into the lawn around the area spaced at 7.87" (20 cm). Leave at least 2.36" (6 cm) of cane above ground. The mower will be physically prevented from entering any protected areas.

■ Magnetic strip



WARNING

If you have an ICD or pacemaker, avoid close or prolonged contact with magnets or their magnetic fields. Keep magnets at least six inches away from where your device is implanted.

The magnetic strip serves as a mobile and temporary boundary for creating areas where the robotic mower is not allowed to mow. It can also be left permanently in place if needed.

The robotic mower is equipped with a magnetic strip sensor for recognizing a magnetic strip lying on the ground. When the robotic mower comes across a magnetic strip, it will stop and begin to mow again in a random direction.

NOTE: Magnetic particles are attached to the surface of the magnetic strip, please wear gloves before use.



WARNING

Strong magnetic force can create a finger pinch risk. Wear gloves and handle with care.

Magnetic Strip Installation

- Lay the magnetic strip a few centimeters away from the area or object in question.
- Keep a distance of at least 47.24" (120 cm) between two individual boundary areas made up of magnetic strips (Fig. 8).
- Fasten the magnetic strip to the ground with the supplied magnetic strip pegs spaced 39.37" (1 m) apart.
- Do not run the magnetic strip outside of the lawn area. The mower may follow the magnetic strip and become stuck (Fig. 9).

■ Obstacles in the mowing area

With the ultrasonic sensors on, objects which do not impede the robotic mower's normal functioning, such as trees (without raised roots), vertical poles, etc., do not require exclusion from the mowing area (Fig. 10).

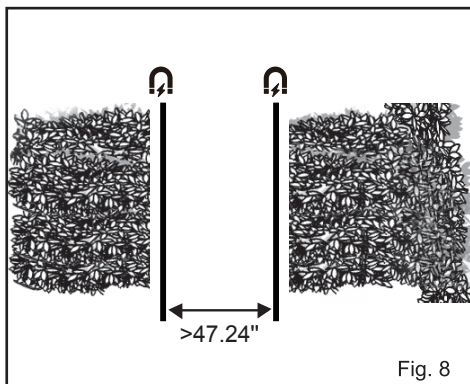


Fig. 8

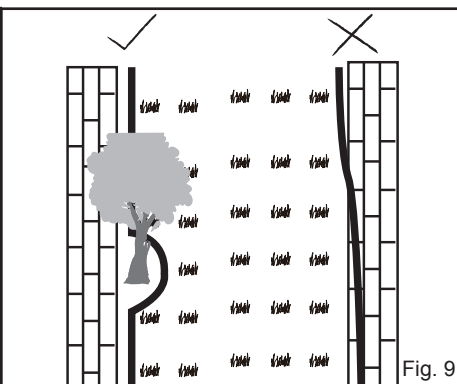


Fig. 9

When objects, such as exposed tree roots, exposed wires, irrigation systems, etc., are present on the surface of the lawn, it is required to protect these objects with paving, walls or magnetic strip to prevent the damage to them and to the robotic mower (Fig. 11).

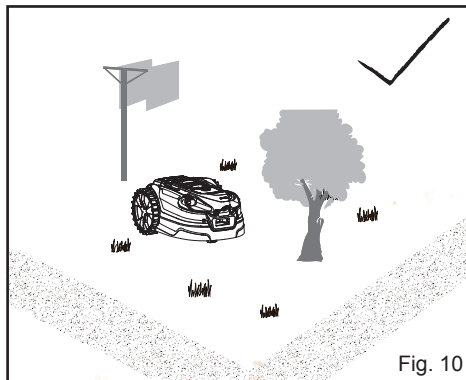


Fig. 10

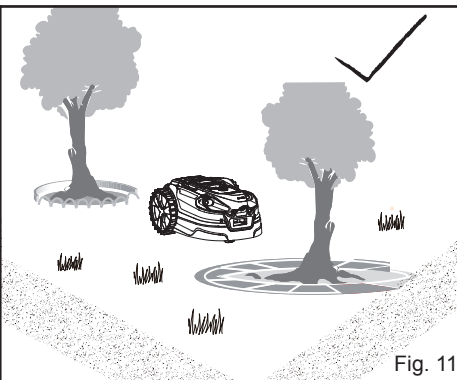


Fig. 11

The working area cannot be defined by holes or ditches. Ensure that there are no objects such as toys, work tools, small stones, branches, or sprinklers, etc., on the lawn or protruding from the ground which could impede the mower or cause damage to the blade (Fig. 12).

NOTE: Avoid leaves accumulating on the lawn, as they may not be detected correctly by the robotic mower. Remove leaves at regular intervals.

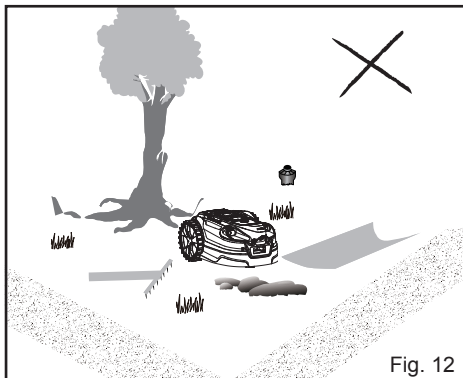


Fig. 12

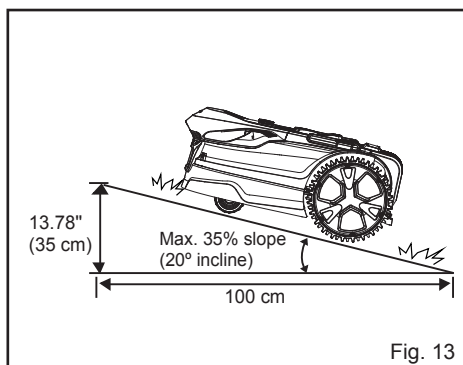
■ Slopes

The robotic mower has the ability to safely climb slopes of 35% or 20° inclines, and areas that are steeper than this should be excluded (Fig. 13).

To calculate the slope of your lawn, see Fig. 13.

The slope would be calculated as below:

$$\frac{35\text{cm (Elevation)}}{100\text{cm (Length)}} = 35\% \text{ (slope)}$$



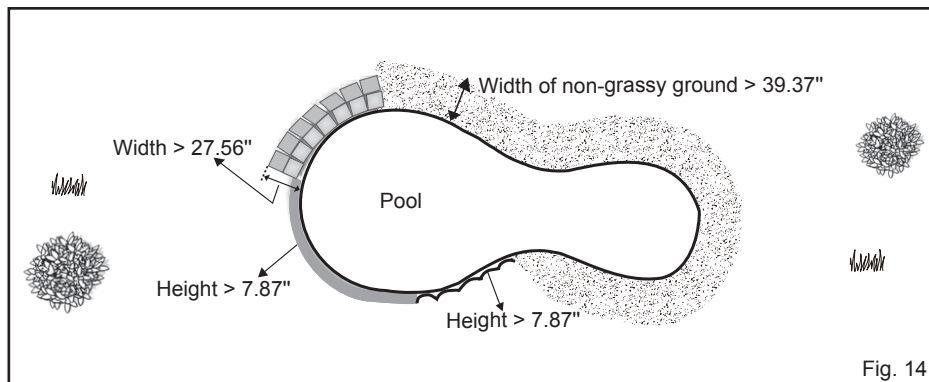
■ Pools and ponds

If there is a pool or pond in the mowing area, create appropriate borders to protect it.

- Raised barriers higher than 7.87\" (20 cm).
- Flat edging (paving, gravel or wooden boards wider than 27.56\" (70 cm)).
- Magnetic strip placed at least 10cm away from the water edge.

The illustration shows a correctly defined working area for the correct functioning of the mower (Fig. 14).

It is very important to make visual boundaries around ponds wide and obvious for the mower. Pond plants and algae could be interpreted as grass. Physical boundaries or magnetic strip around ponds are highly recommended and will prevent any accidental water damage to your mower which is not covered by the manufacturers guarantee.



SELECTING THE BASE STATION LOCATION

It is important to select a proper location for the base station to charge the robotic mower in order to allow for docking to take place successfully.

The base station should be located in an area that is:

- At the edge of the lawn with 6.56 ft (2 m) of clearance around the open sides of the charging station
- Level
- Within 32.8 ft (10 m) of an outdoor power socket
- Within reach of your home Wi-Fi signal
- Clear of any sharp objects and obstacles

The mower can be operated in multi-zone lawns. Place the base station in the largest zone if there are additional zones in your lawn.

Regularly clean the base station and keep it free of dust and weeds to ensure the camera can detect the orange guide strips.

NOTE: The ground leading up to the base station should be level without corners, slopes or obstacles to ensure proper docking. It may be necessary to adjust the location of the base station to ensure both a good GPS signal as well as a good WiFi signal. See page 29-31 for more information about GPS.

IMPORTANT:

Keep the area around the base station free of long grass to allow easy identification by the camera.

Keep the guide strips clean and tidy for easy identification by the camera.

Covering the base station with metal coverings is prohibited and can interfere with GPS signal reception (Fig. 15).

It is recommended to purchase the official LawnMaster Garage accessory. See Page 65 for parts list.

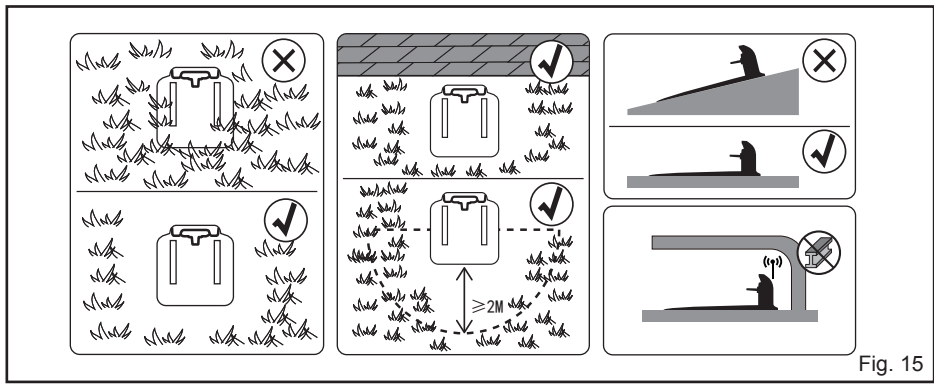


Fig. 15

INSTALLING THE BASE STATION

- Connect the two base parts of the base station as shown. Ensure they click together firmly (Fig. 16).

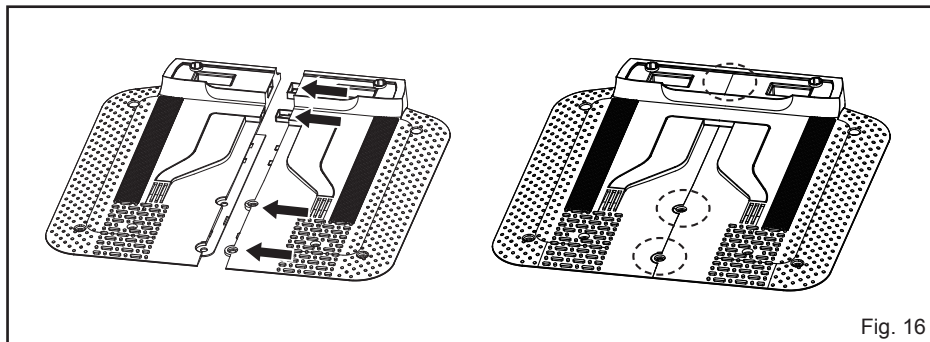


Fig. 16

- Fully insert the upper part of the base station onto the base. Ensure the upper part clicks firmly into place. Ensure the orange strips on the charging station base are facing up and clearly visible (Fig. 17).
- Place the base station on the ground in an appropriate position within the lawn boundary. The back of the charging station should be flush to the boundary to minimize any trimming needed near the power cable. Follow the instructions in section 2 "Selecting the Base Station Location" on page 23.
- Secure the base station to the ground with the supplied screws (Fig. 18).

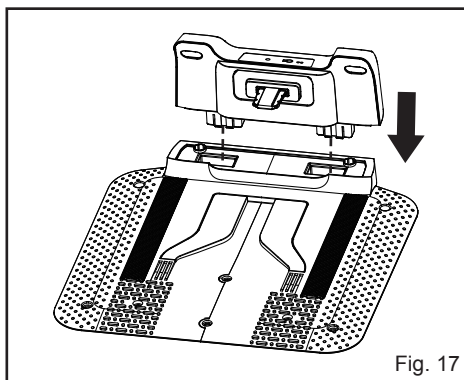


Fig. 17

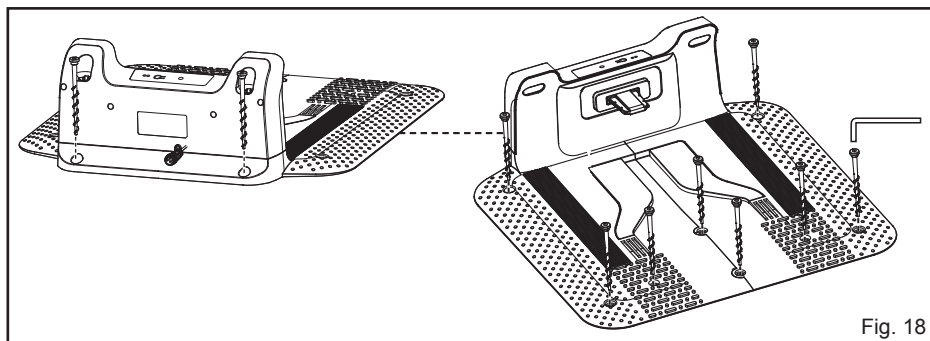


Fig. 18



WARNING

Do not make new holes in the plate of the base station. Only use the existing holes in the base station to secure it to the ground.



WARNING

Do not tread or walk on the plate of the base station (Fig. 19).

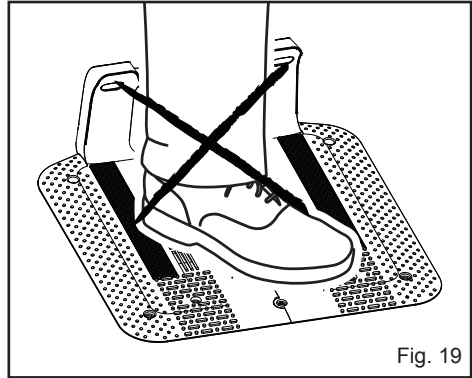


Fig. 19

CONNECTING THE BASE STATION TO THE POWER SOURCE

- First connect the extension cable to the power adapter. Align the notch (①) on the extension cable with the groove (②) on the adaptor and turn the locking sleeve (③) clockwise to lock into place (Fig. 20 & 21).
- 2) Then connect the base station's power cord to the extension cable. Align the notch (①) on the power cord with the groove (②) on the extension cable and turn the locking sleeve (③) clockwise to lock into place (Fig. 20 & 21).

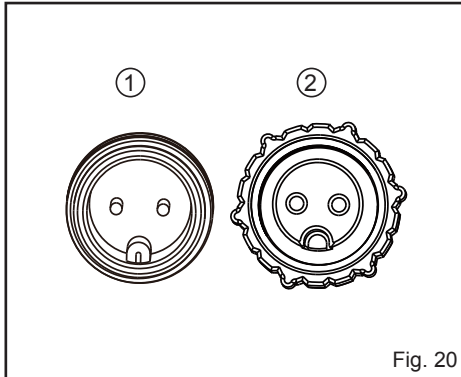


Fig. 20

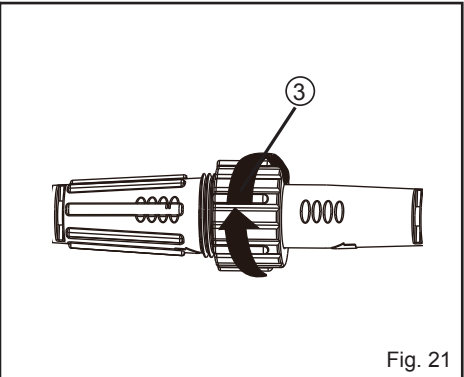
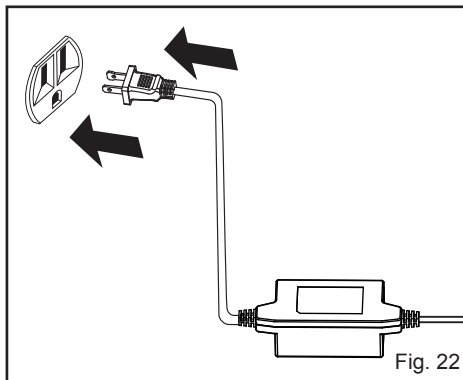


Fig. 21

- Position the power adaptor on the ground as shown to protect from water. Alternatively, to keep it away from standing water, the power adaptor can be wall mounted by screwing it to the wall through the holes provided (Fig. 22).
- Connect the power adaptor to a 100-240V wall socket. If the power supply is connected to an electrical outlet outdoors, make sure the electrical outlet is always in a dry place and the wattage is compatible with the mower.



WARNING

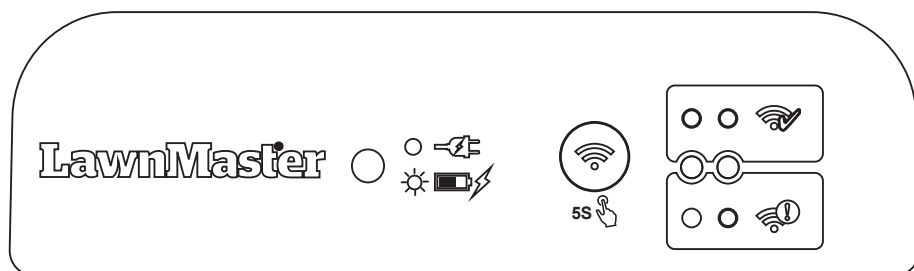
Do not put the power cable in the working area, or the mower may cut the power cable.

WARNING

Recharge the mower only with the base station specified by the manufacturer. Incorrect use may result in electric shock, overheating or leakage of corrosive liquid from the battery.

Charging Indicators

When the base station is installed successfully and the power adaptor is connected to an electrical outlet, the LED on the base station will be solid green. Check the LED status as below to make sure the connection between the base station and power source is OK.



LED on the Base Station	Status	Action
Solid green	Base station is connected successfully; the robotic mower is fully charged.	/
Flashing green	The robotic mower is charging.	/
Off	No power supply.	Check the power adaptor, cord, breakers, and fuses.

INSTALLING/REMOVING THE BATTERY PACK

WARNING

IMPORTANT! The battery pack is not charged when it is purchased. Before using the mower, read all safety precautions, and follow the instructions in the Battery Pack section. With regular use, it will need shorter charging time. If storing for a prolonged period of time, remove the battery. When ready to use again, charge the battery pack.

To install the battery pack:

- Lift the battery compartment cover.
- Align the support rails located within the battery compartment with the guides in the battery pack, and then insert the battery pack into the compartment (Fig. 23).
- Push the battery pack until you hear a “click”.
- Close the battery compartment cover.

NOTE: Make sure that the battery pack firmly snaps into place and is secured to the mower before starting operation. If the battery compartment cover is not closed properly, “Close the battery cover” will display on the main screen.

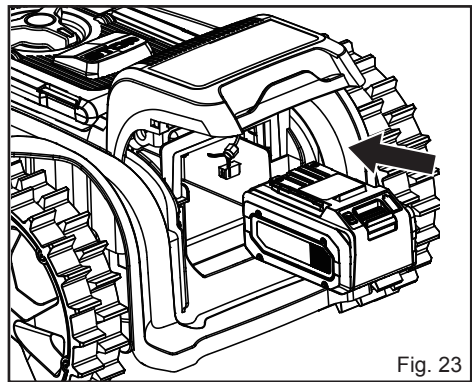


Fig. 23

To remove the battery pack:

- Stop the mower. Lift the battery compartment cover.
- Press and hold the release button on the battery pack (1), grasp the battery pack firmly and pull out (2) of the battery compartment (Fig. 24).
- Close the battery compartment cover.

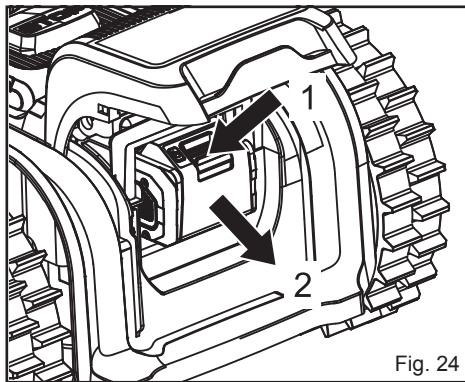
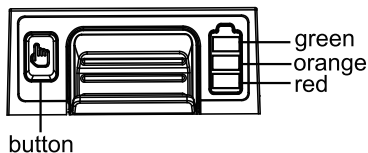


Fig. 24

BATTERY LED PANEL

- The panel consists of 3 LEDs on the battery. Press and hold the button, then release it, the LEDs will show you the charge levels.
- The battery's charge level can be checked either when the battery is attached on the charger/mower or removed from the charger/mower.

LEDs on Battery (Continuous Lighting)	Battery Capacity
3 LEDs	Fully charged
2 LEDs (orange & red)	≥40%
1 LED (red only)	<40% (Recharge required).

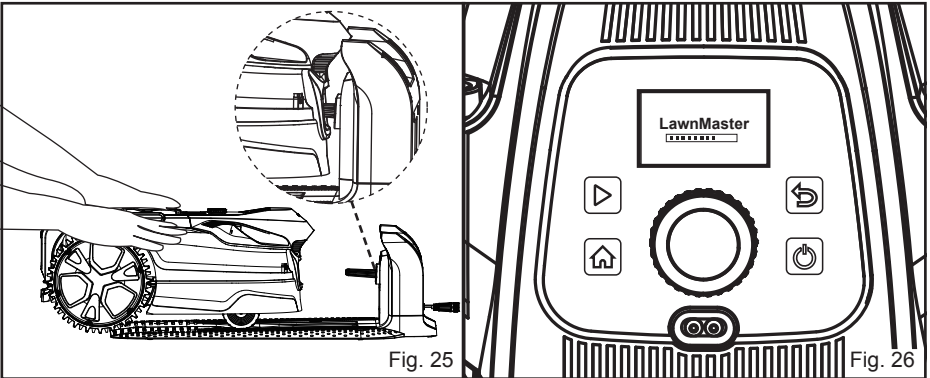
Indicator Lights

Control Panel (Fig. 26)

Button	Name	Function
	On/Off Button	Press to turn on/off the robotic mower.
	HOME Button	Press to send mower to base station.
	Start Button	Press to start mowing.
	Selection Dial	Turn right or left to select the menu settings. Press to confirm.
	Back Button	Press to return to the previous level.

POWER ON AND FIRST USE

- Make sure the battery is secured in place, and the base station is installed correctly and powered on successfully.
- Place the mower on the base station. Make sure the mower's charging strips are fully connected with the contact strip of the base station (Fig. 25). The mower will automatically start initialization (Fig. 26). It will take about 15 seconds to complete this process. The mower will beep twice, and the LCD panel will display the Main Screen (Fig. 27).



- The GPS icon on the main screen will rotate while the mower is being positioned. When the mower is positioned successfully, the GPS icon will be solid (see page 31).

NOTE: The robotic mower will recheck the GPS position for up to three minutes every time it returns to the base station. When the GPS signal is good and the positioning is complete, the GPS icon will be solid. When affected by weather or if the base station is covered by a metal covering, the GPS signal will be weak, and the GPS icon will flash. If the GPS signal is weak, the mower may not dock correctly. Please try adjusting the position of the base station.

Place the base station in an open area, avoiding trees or other tall objects. Ensure there are no obstacles taller than 1 metre within a 3-metre radius in front of the base station.

- The battery is supplied in a partially charged state and will require charging before use. Allow the battery to fully charge before first use.

MAIN SCREEN (Fig. 27)

This section explains the symbols shown on the Main Screen.

① Camera Icon

The camera icon is always on when the robotic mower is on.

Camera Icon	Status
Solid	Communication of the camera is normal.
Flashing	Communication of the camera is abnormal.

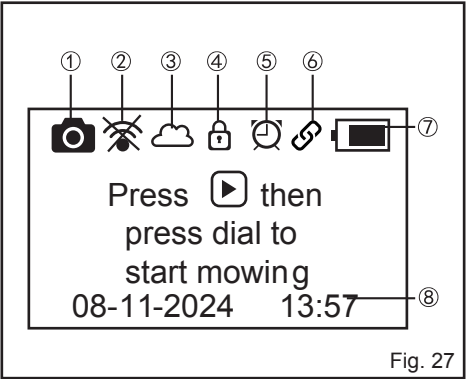


Fig. 27

② App Icon

App Icon	Status
	The base station is not connected to Wi-Fi .
	The base station is connected to Wi-Fi successfully.



③ Rain Sensor Icon

Rain Sensor Icon	Status
	The rain sensor is not activated.
	The rain sensor is activated.
Empty	The rain sensor is off.

④ Lock Icon

Only visible when a PIN is set. Refer to page 38-39 for more details.

⑤ Working Mode Icon

Please refer to page 33-36 for a more detailed overview of these two modes.

Working Mode Icon	Status
	Schedule Mode
	Drop & Mow Mode

⑥ GPS Icon

The GPS icon is on when the robotic mower is on.

GPS Icon	Status
 (Solid)	The robotic mower is positioned successfully.
 (Rotating)	The robotic mower is being positioned.
 (Flashing)	Bad signal (Refer to Troubleshooting Section)
	No valid GPS data (Refer to Troubleshooting Section)
	Temporary problem on GPS communication; or the GPS module is damaged. (Refer to Troubleshooting Section)

⑦ Battery Indicator

Battery Indicator	Status
	The robotic mower is fully charged.
	Low power.
	Charging
	The robotic mower is in charging station, no battery pack inserted.

⑧ Time and Date

The time will be set following GPS information when the mower is powered on first time or after factory reset. The default time setting is Summer Time (i.e. one hour ahead of the standard regional time zone).

Changing the time manually will override this.

SETTINGS MENU

Press the Selection Dial (referred to afterwards as the “Dial”) to select the settings menu.

Turn the Dial right or left to scroll through the settings menu icons (Fig. 28).

Press the Dial again to enter the submenu for each setting.

Press the back arrow to go back in the menu.

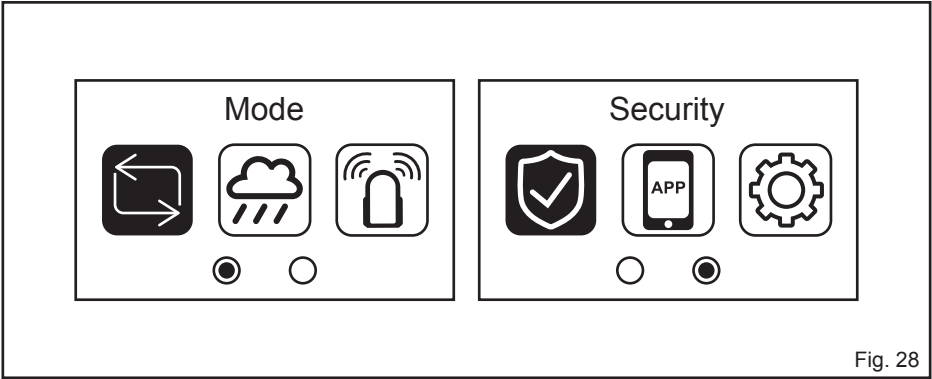


Fig. 28

Icon	Name	Function
	Mode	Select the working mode: Schedule or Drop & Mow (see page 33-36)
	Rain Sensor	Rain sensor setting, to turn the rain sensor function on and off and select the desired time delay.
	Ultrasonic	Turn ultrasonic sensors on and off.
	Security	Adjust security settings, such as PIN code protection.
	App	App connection operation
	Settings	General settings

Mode Page

Press the Dial and select the Mode page. Turn the Dial to switch between Schedule and Drop & Mow (Fig. 29). Schedule is the default mode setting.

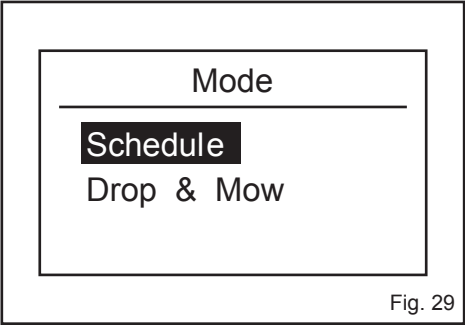


Fig. 29

Schedule Mode

The robotic mower mows the lawn within the properly defined borders in daylight hours following the set schedule. It will automatically recharge. It will alternately charge and mow until the end of the set working session. A schedule of 08:00 to 17:00 is set by default.

Ensure the time and date are set according to the local time zone.

Choose the start and end times:

- Select “Schedule”. Press the Dial to confirm.
- Turn the Dial to select Amend Schedule, and then press the Dial to enter the schedule overview page (Fig. 30).
- On the schedule overview page, the current working sessions are highlighted with a solid bar. The sunrise and sunset times are shown at the top of the screen. NOTE: The mower will not operate outside of these times.
- Turn the dial to toggle through the daily schedules (Fig. 30).
- Turn the dial to the desired day and press to select.
- Adjust each digit of the start time and end time by turning the Dial and pressing to confirm.
- If a wrong digit is entered, press the back button to return to the previous digit.

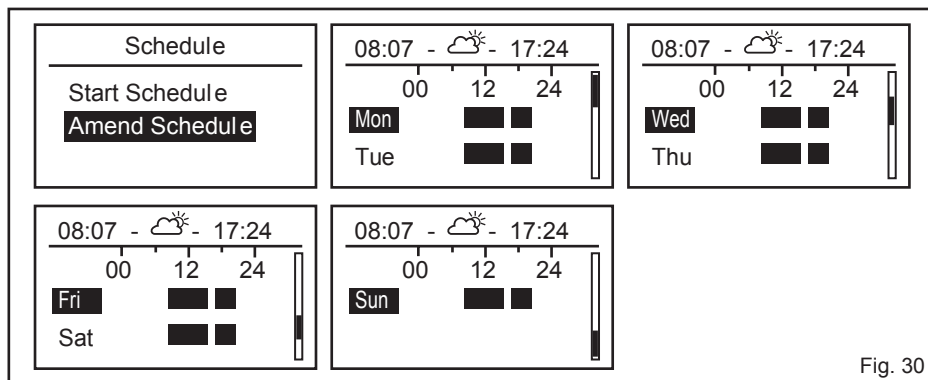


Fig. 30

Two working time periods can be set for each day according to your requirements. The daily working time settings can be copied to other days (Fig. 31).

To clear the time settings, turn the dial to select “Clear” and press to confirm (Fig. 31).

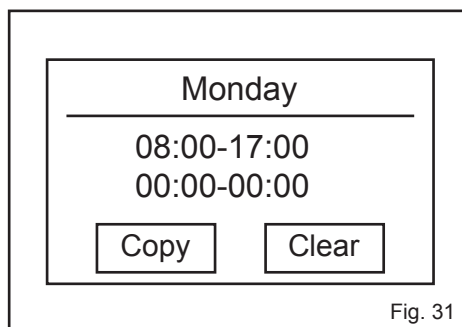


Fig. 31

To copy daily time settings to other days:

- Turn the Dial to select Copy, and then press the Dial to enter the Copy page (Fig. 32).
- Turn the Dial to select the desired day and press to confirm with a tick.
- To apply the times to all days, select "All".
- Press the back button, select Yes and press the Dial to confirm changes (Fig. 32).

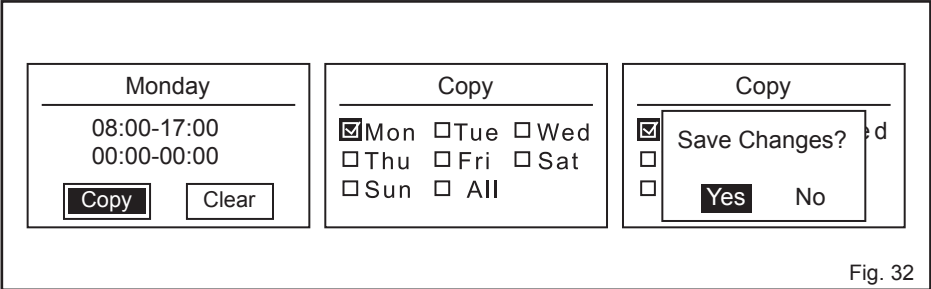


Fig. 32

Press the back button to return to the schedule overview page. The newly set start and end times can be seen.

The mower schedule is now set. To start schedule, turn the Dial to select Start Schedule, and then press the Dial to confirm (Fig. 33).

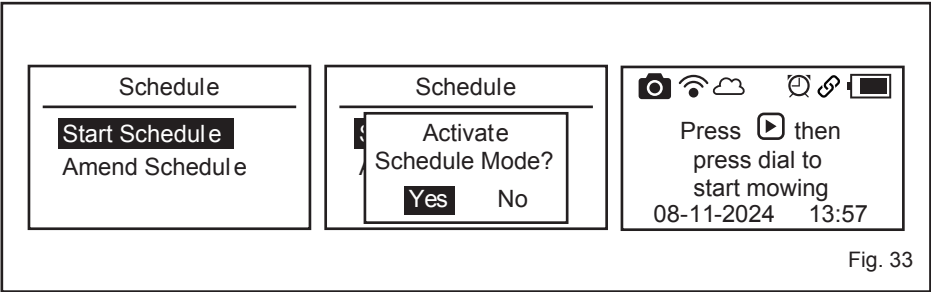


Fig. 33

Refer to STARTING/STOPPING THE ROBOTIC MOWER on page 42-44 to begin the first scheduled mowing session.

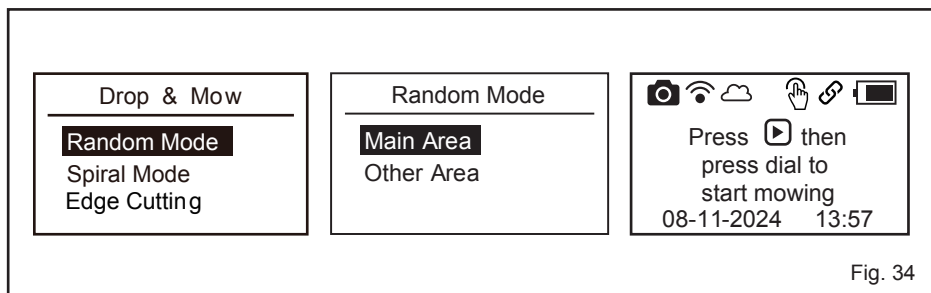
Drop & Mow Mode – the mower is sent out for a one-time mow.

This mode can be used either on “Main Area” (i.e. the lawn that contains the charging station) or “Other Area” (e.g. front lawn or lawn at another property):

Main area – the mower will mow once and return to the charging station.

Other area – the mower will mow until the battery runs out and wait on the lawn to be collected and placed on the charging station.

- Select “Drop and Mow”. Press the Dial to confirm.
- Select Random Mode, Spiral Mode or Edge Cutting by turning the Dial. Press the Dial to confirm (Fig. 34).
- Choose the Main Area or Other Area according to your requirement.
- Press the Dial to confirm (Fig. 34).



- Random Mode:

The robotic mower mows the lawn in a random pattern. It will automatically search for a suitable working area. If the robotic mower does not find grass, it will change direction and start running again in a new direction. The blades will not spin until the mower can detect grass for more than 5 seconds.

- Spiral Mode:

The robotic mower mows in a spiral outwards from where it is placed on the lawn. This is best used to tidy up any areas that may not have been mowed during a random mowing session. The robotic mower will spiral for up to 3 minutes. After the spot cut is finished, the mower will start to mow in a random pattern automatically.

If the area to be mowed is too narrow for the robotic mower to carry out the spot cut, after searching, the mower will mow in a random pattern automatically.

NOTE: The mower will beep when lifted and transported from different areas. This is a normal warning sound.

- Edge Cutting:

The robotic mower will automatically search for and follow the edge of lawn to trim the grass nearby. Select Edge Cutting by turning the Dial. Press the Dial to confirm. To start the mower, press the Start button, and then press the Dial to confirm.
After the edge cutting is finished, the mower will start to mow in a random pattern automatically.

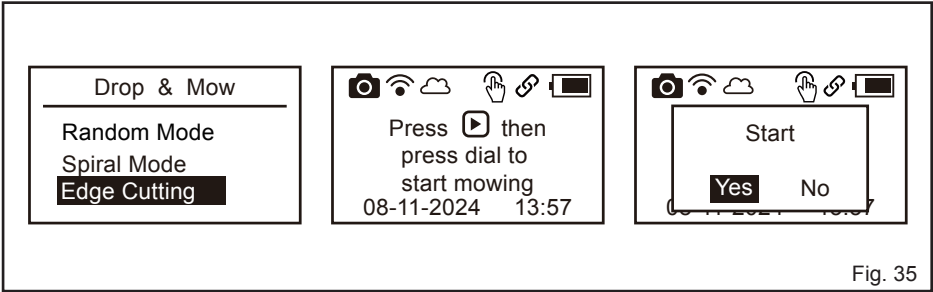


Fig. 35

Rain Sensor Page

The robotic mower is equipped with a rain sensor (Fig. 36). It is on by default. When it rains, the rain sensor will be activated. The robotic mower will stop mowing and return to the base station. The time delay is effective from the time the sensor dries.

- Turn the Dial to the rain sensor menu and press to select.
- Turn the Dial and select on or off.
- Select the required time delay using the Dial. This can be set between 0 and 10 hours.

NOTE: The default delay time is 2 hours as shown (Fig. 37). The time delay prevents lawn damage arising from cutting on wet lawn.

To turn the rain sensor off, turn the Dial to select Off and press the Dial to confirm.

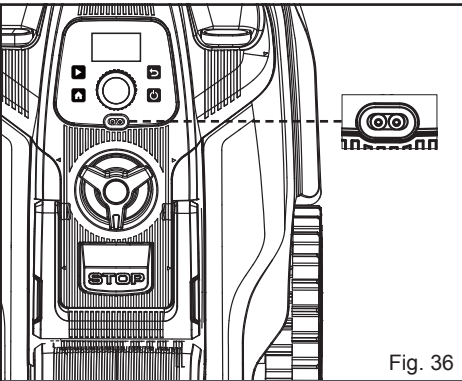


Fig. 36

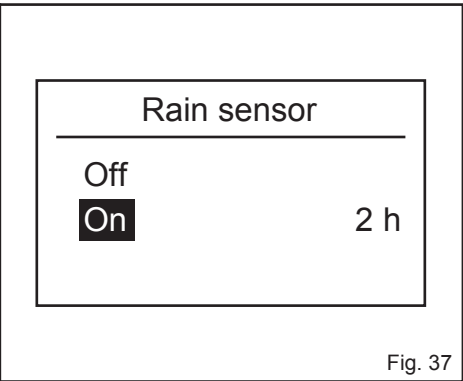


Fig. 37

Ultrasonic Page

Turn and press the Dial to enter the Ultrasonic settings menu (Fig. 38).

The ultrasonic object sensors are turned on by default. To turn the ultrasonic sensor off, turn the Dial to select Off and press the Dial to confirm Yes.

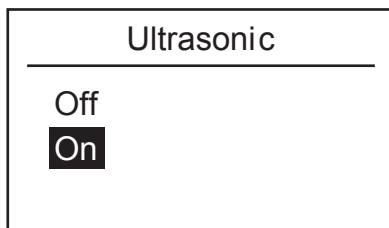


Fig. 38

Security Page

Turn and press the Dial to enter the Security page (Fig. 39). This page is used to switch the PIN on and off, change the PIN, and view the software version.

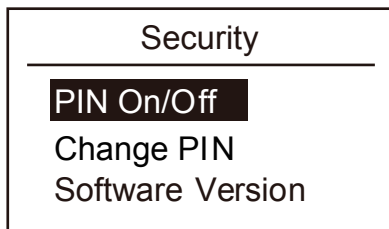


Fig. 39

1) PIN On/Off (Fig. 40)

This function is used to turn the PIN on and off. When the PIN function is turned on, you need to enter the PIN code to operate the control panel; when the PIN function is disabled, the control panel can be directly operated.

Please note there is no default PIN code. After enabling the PIN function, set a PIN code immediately.

- Use the Dial to select PIN On/Off and press the Dial to enter the PIN On/Off page.
- Turn the Dial to select Enable and press the Dial to enter the Set PIN code page.
- Turn and press the Dial to input a four digit PIN code. Confirm the same PIN once again.
- Press the Dial to confirm Yes.

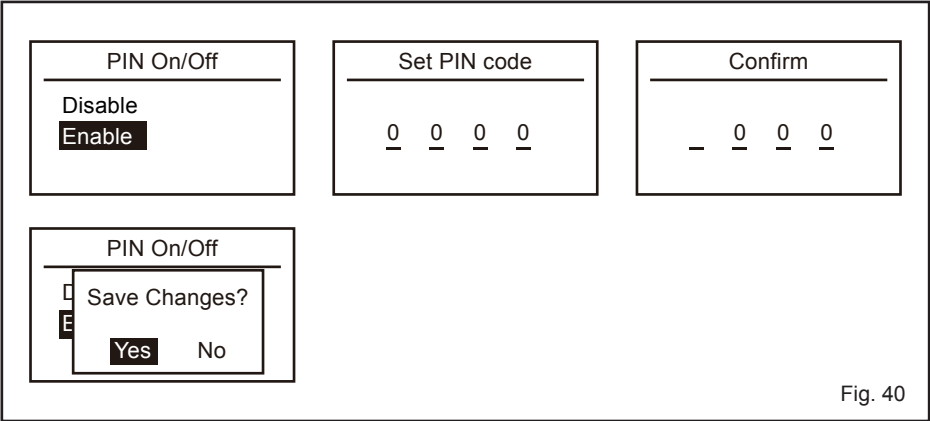


Fig. 40

2) Change the PIN (Fig. 41)

NOTE: If the PIN On/Off function is disabled, your set PIN cannot be changed. Please ensure the PIN On/Off function is enabled.

- Use the Dial to select Change PIN and press the Dial to enter the Old PIN code page.
- Turn the Dial and press to input the new PIN code. Confirm once again. Press the Dial to confirm Yes.

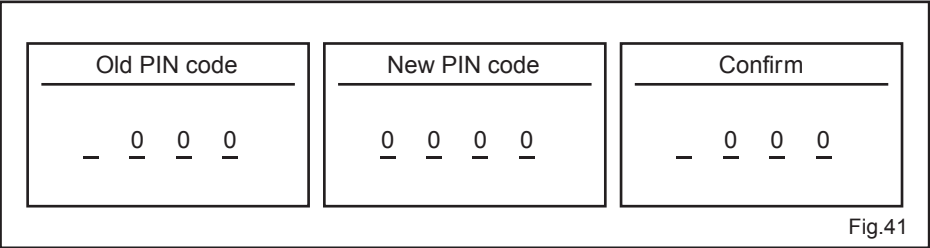


Fig.41

3) Software Version (Fig. 42)

This displays information about the robotic mower's software version. If necessary, check the software version using this setting.

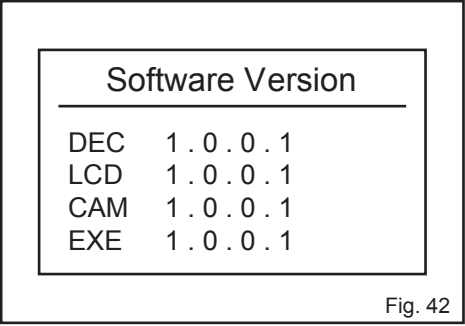


Fig. 42

App Page

NOTE: The robotic mower is paired with the base station when it leaves the factory. If the robotic mower breaks down and needs to be paired again, use this page to pair it. See page 47-49 for detailed instructions.

Settings Page

Turn and press the Dial to enter the Settings page (Fig. 43). This page is to view/change general settings, such as date, time and language, etc.

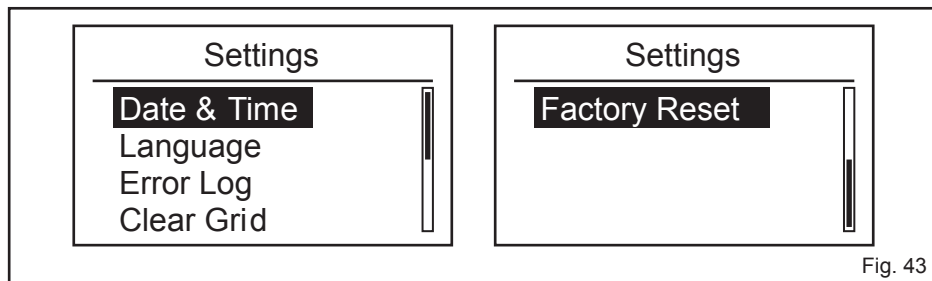


Fig. 43

1) Date & Time

Use the Dial to select Date & Time and press the Dial to enter the Date & Time page (Fig. 44). This setting allows you to set current date and time.

Use the Dial to edit the date and time:

- Press the Dial to select each digit.
- Turn the Dial right/left to increase/decrease the time of each digit.
- Press the Dial to confirm each digit.
- Press the Dial to confirm Yes.

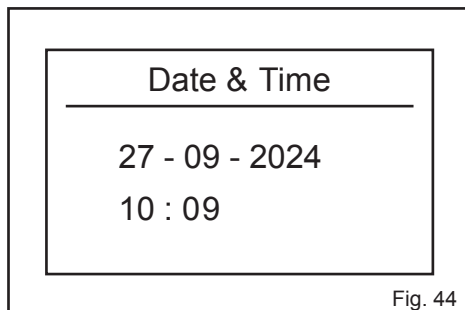


Fig. 44

The set date and time can be seen on the bottom of the Main Page. It is important to set the correct date and time so the mower schedule functions correctly.

2) Language

Use the Dial to toggle through the pages to select your desired language. Press the Dial to confirm. (Fig. 45).

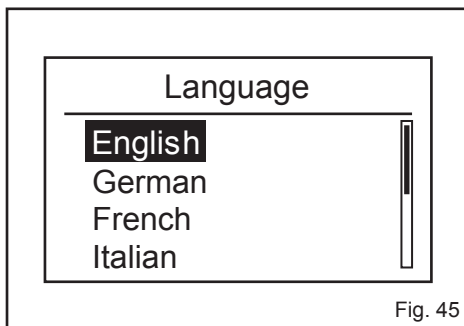


Fig. 45

3) Error Log

Use the Dial to select Error Log and press the Dial to enter the Error Log page (Fig. 46). The latest two errors are displayed in this error log. Select and press the Dial to enter the Error log page to view.

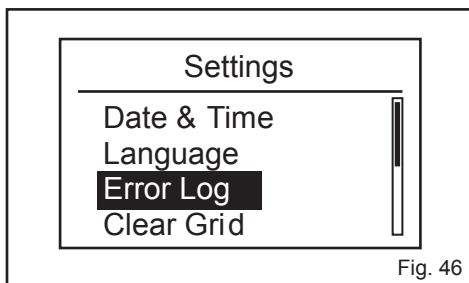


Fig. 46

4) Clear Grid

Reset map of lawn or after changing or repositioning the charging base station. Select and press the Dial to confirm (Fig. 47).

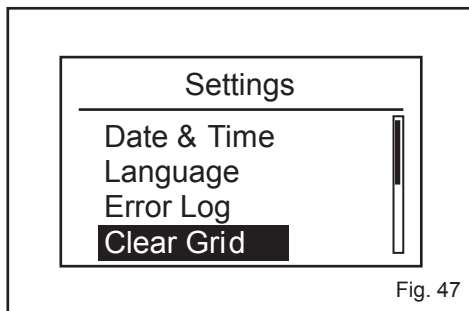


Fig. 47

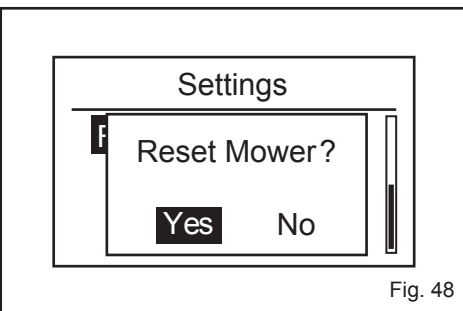


Fig. 48

5) Factory Reset

This setting allows you to reset the parameters of robotic mower to the factory default settings. Confirm with Yes (Fig. 48). After the factory reset, the mower should be repositioned. On first use in schedule mode, start the mower from the charging station.

Starting/Stopping the Robotic Mower



WARNING

Read the safety instructions carefully before you start your robotic lawnmower.



WARNING

Keep your hands and feet away from the rotating blades. Never put your hands or feet close to or under the mower when the motor is running.



WARNING

Never use the robotic lawnmower when people, especially children, or pets, are in the cutting area.

- Make sure the battery is secured in place.
- Place the mower on the docking station. Allow the battery to fully charge before first use.
- If the mower is off, press the On/Off button to turn the mower on.
- Select the desired mower settings (e.g. Rain Sensor, Ultrasonic Sensor, Time & Date) according to the information in Section 4 “Settings Menu”.
- Choose Schedule Mode or Drop & Mow Mode according to the instructions on page 33-36.
- On first use in schedule mode, start the mower from the charging station. To start the mower, press the Start button, and then press the Dial to confirm. The robotic mower will start mowing in 5 seconds.
- In Drop and Mow mode, put the mower into the area to be mowed and press the Start button, then press the Dial to confirm (Fig. 49).

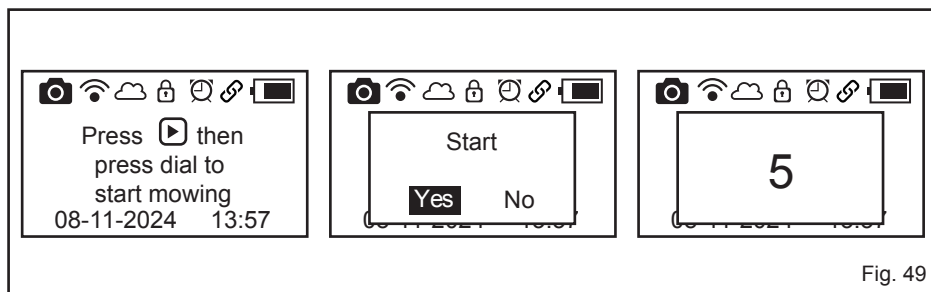
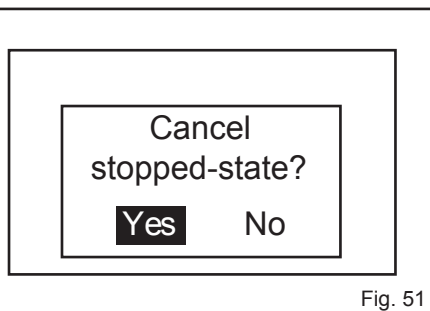
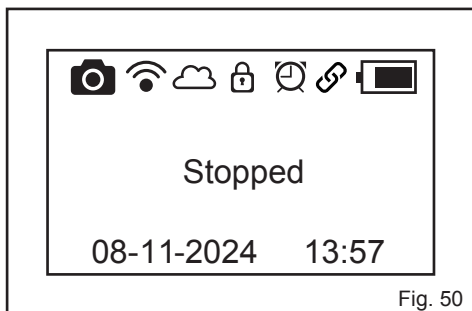


Fig. 49

- In Schedule mode, when charging is required, the robotic lawnmower will automatically return to the base station. It takes around 2 hours and 10 minutes to be fully charged, after this the robotic mower will resume mowing. When the scheduled working time is over, it will return to the base station and remain on standby on the base station for the next working schedule.
- To stop the mower manually during operation, press the STOP button. The LCD panel will display as below (Fig. 50). To recover the mower from the stopped state, press any button, and then press the Dial to confirm (Fig. 51).



NOTE: When the mower is charging on the base station, press the STOP button, the LCD panel will display as per Fig. 50. The mower will not resume working after charging is finished.

- To turn off the mower, press the On/Off button for 2 seconds.

NOTE: The mower is always on and cannot be turned off when on the charging station.

NOTE: If the mower is not on the charging station and the control panel has not been operated for 25 minutes, the mower will automatically enter sleep mode (**the LCD panel will turn off**). Press the On/Off button to turn off the mower. Then turn on the mower again.

NOTE: If the operating temperature is over 65°C, the LCD panel will display "Battery Over Temperature". The robotic mower will search automatically to return to the base station. Allow the machine to cool down to reach a normal temperature. Then restart the mower, it will work again.

Setting the Cutting Height



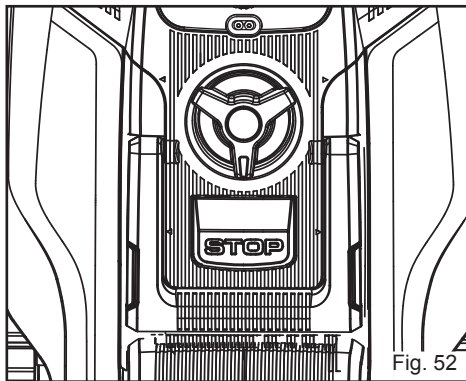
WARNING

Do not make any adjustment to the robotic mower without first stopping the motor. Keep your feet away from the blade turning disc when adjusting its height.

The cutting height of the robotic mower can be adjusted from MIN 1.2" (30 mm) to MAX 3.1" (80 mm) (Fig. 52).

During the first week of use, select a cutting height of 2.36" (60 mm). The cutting height can be lowered step by step every week until the desired cutting height has been reached.

- Press the STOP button to stop the robotic lawnmower.
- Turn the cutting height adjustment knob to set the cutting height.
 - Turn clockwise to raise the cutting height.
 - Turn anti-clockwise to lower the cutting height.
- For the first cut each season, a higher cutting setting should be selected. **USING A CUTTING HEIGHT THAT IS TOO LOW IN LONGER GRASS WILL USE MORE POWER AND REDUCE BATTERY RUN TIME.**



- Before you begin to mow, check to ensure that the blade is not dull and that none of the fasteners are damaged. To prevent any imbalance, replace dull and/or damaged blades. To carry out this check, first switch off the mower using the On/Off button.

WI-FI CONNECTION

NOTE: This Lawnmaster Robotic Lawnmower supports 2.4GHz Wi-Fi networks and is compatible with Apple iOS 13 and above & Android 5.0 and above.

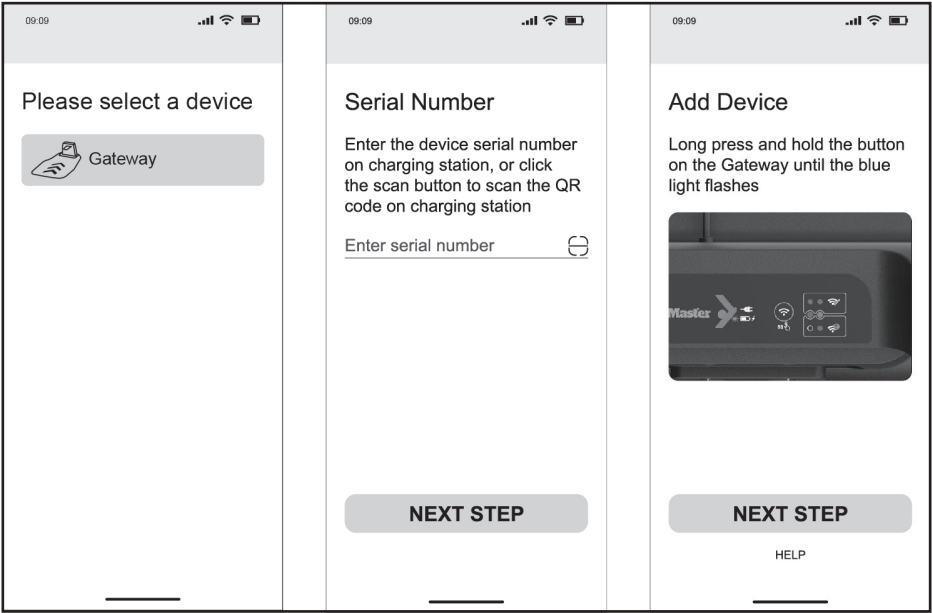
Download the Lawnmaster app by scanning the QR code. The app can also be downloaded from the Apple App Store or Google Play Store by searching for "OcuMow". Open the app and create a profile.



NOTE: The robotic mower is paired with the base station during production. When you connect the base station using the app, the mower must be connected into the base station. Ensure the phone, mower, and base station are all in close proximity.

Your mower connects to your phone using a cloud connection. This connection is provided via a gateway in the charging station. First, the base station must be connected to your home Wi-Fi network.

- When the base station is connected successfully and the power adapter is connected to an electrical outlet, the signal indicator on the base station will be solid blue.
- Press and hold the Wi-Fi connection setting button for 5 seconds. The base station starts the Wi-Fi pairing. The signal indicator on the base station flashes blue slowly. This lasts for 4 minutes. Make Wi-Fi connection within this duration.
- Open the App and configure the network according to the app operation process (Fig. 53).



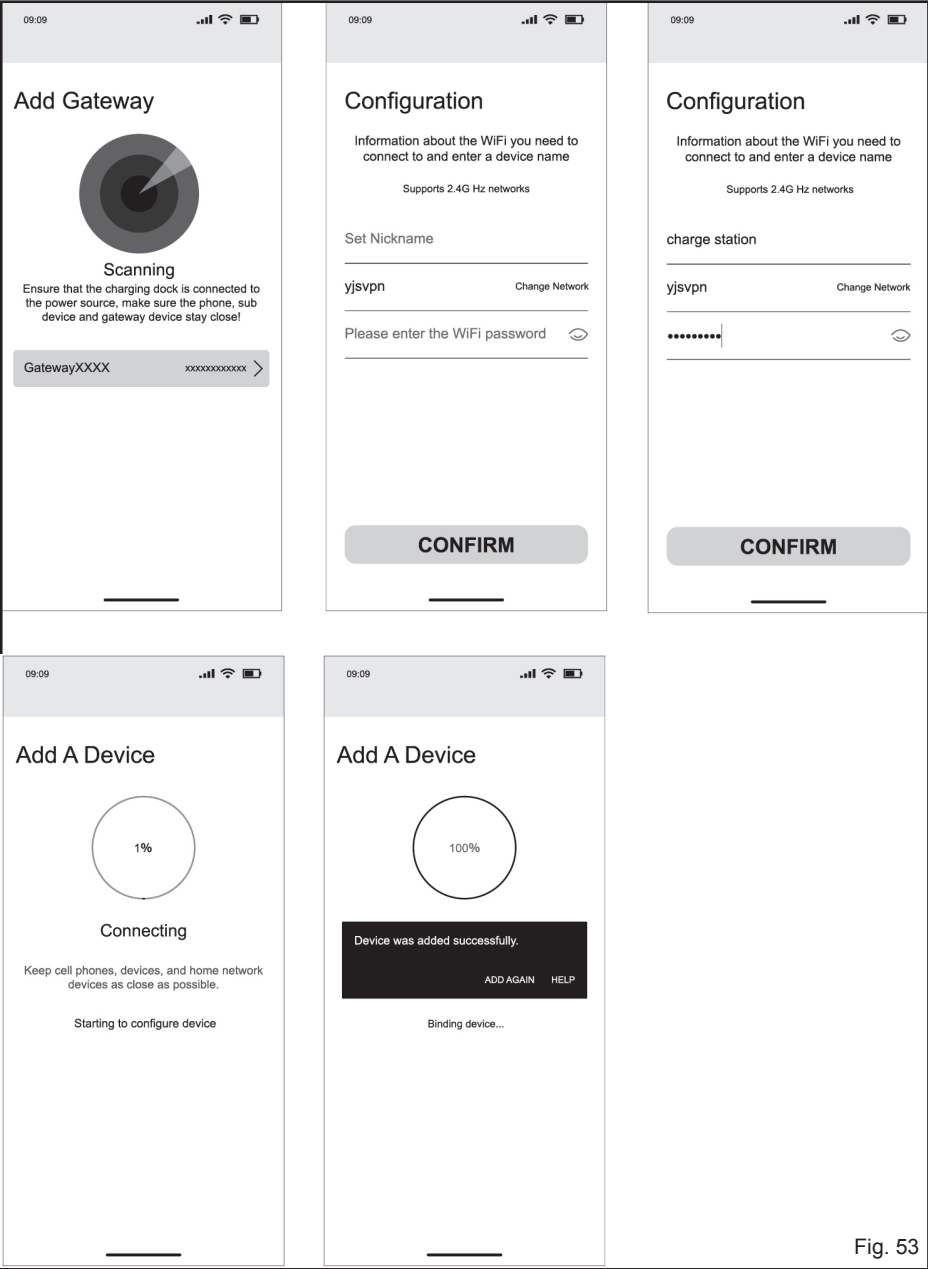
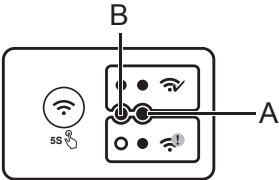


Fig. 53

- When the base station is successfully connected to the Wi-Fi network, both signal indicator and Wi-Fi indicator on the base station will be solid blue.
- If Wi-Fi connection fails, or the Wi-Fi network is disconnected, the signal indicator (A) on the base station will be solid blue. The Wi-Fi indicator (B) will be turned off.
- To reset Wi-Fi, press and hold the Wi-Fi connection setting button for 5 seconds. The base station starts the Wi-Fi pairing. This lasts for 4 minutes. Repeat above steps in Fig. 53.

Status	Signal Indicator (A)	Wi-Fi Indicator (B)
The base station is connected successfully, and power adaptor is connected successfully	Solid blue	Off
Pairing	Blue, flashing	Off
Successful Wi-Fi Connection	Solid blue	Solid blue
Wi-Fi Connection Failed / The Wi-Fi network is disconnected	Solid blue	Off



How to re-pair the robotic mower and base station?

The robotic mower is paired with the base station when it leaves the factory. If the robotic mower breaks down and needs to be paired again, use the App page in the mower's settings menu to pair it.

This App page will switch on the signal of the robot mower and allow it to pair to a charging station.

Turn and press the Dial to enter the App page. Use the Dial to select Connection and press the Dial to enter the Connection page (Fig. 54).

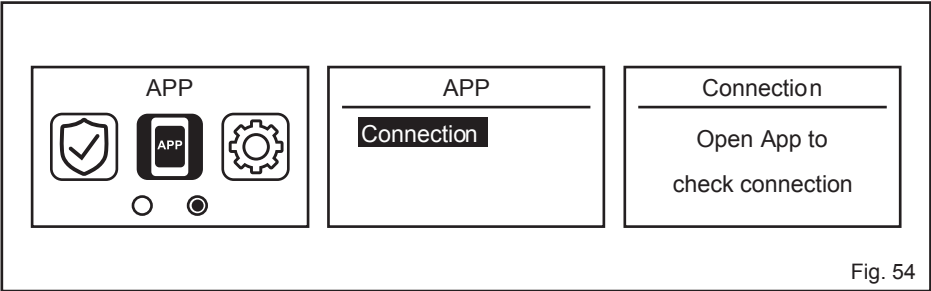


Fig. 54

Then, open the App and configure the network according to the app operation process (Fig. 55).





Fig. 55

When the robotic mower is successfully connected to the base station, the main page will display as below (Fig. 56).





WARNING

Always switch the product off, remove the battery pack and let the product cool down before performing inspection, maintenance and cleaning work!



WARNING

If a part becomes worn or damaged, use manufacturer's recommended replacement parts. Use of any other parts may create a hazard or cause product damage.



WARNING

Do not use any attachments or accessories not recommended by the manufacturer of this product. The use of attachments or accessories not recommended can result in serious personal injury.

General Maintenance

- Keep all safety devices and the motor housing free of dirt and dust. Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean, dry cloths to remove dirt, dust, oil, grease, etc.
- Periodically check all nuts and bolts for proper tightness to ensure safe operation of the robotic mower.
- Remove any buildup of grass and leaves on or around the robotic mower and base station. Wipe the mower clean with a dry cloth occasionally.
- Inspect the base station and clean it from mud and debris to allow proper docking.

Replacing the Mower Blade (See Figs. 57-58)



WARNING

Always wear protective, heavy gloves and/or wrap the cutting edges of the blade with rags when performing blade maintenance. Failure to heed this warning could result in serious personal injury.



WARNING

Before performing any maintenance, make sure the battery has been removed. Failure to heed this warning could result in serious personal injury.

Always check to see if the blades are in good condition. If the blades are blunt, damaged or showing signs of imbalance, they must be replaced. Only use recommended replacement blades. Make certain **ALL** 3 blades and screws are replaced at the same time to keep a balanced cutting

system. Visit www.lawnmaster.com for information on where to purchase additional blades. Consumables and Accessory part numbers can be found at the back of this manual.

To replace the blades

- Press the STOP button and allow the blade to come to a complete stop.
- Press the On/Off button to turn off the mower.
- Lift the battery compartment cover. Remove the battery.
- Slowly turn the mower over. Place it on a soft and clean surface.
- Use a suitable tool (e.g., a screwdriver) to insert into one of three holes in the blade disc to fix it in place (Fig. 57). This ensures the blade disc is not turning when replacing the blades to avoid personal injury.
- Wear protective gloves and use a screwdriver or hexagonal socket wrench to remove all three screws and blades (Fig. 58).
- Secure the new blades with new screws.
- Make sure all blades can spin freely.



WARNING

Use of an electric screwdriver to remove blade bolts could cause the blade disc to turn rapidly, resulting in personal injury. Take care and ensure the blade disc is locked in place with a suitable tool.

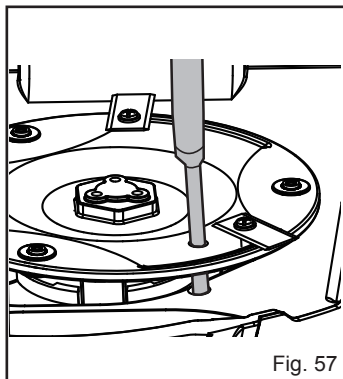


Fig. 57

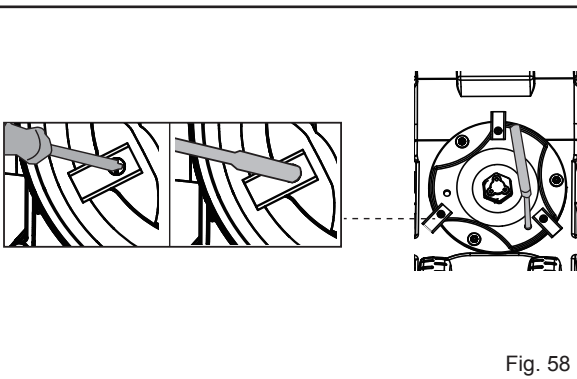


Fig. 58

Cleaning the Underside

It is recommended to check and clean the underside of the robotic mower regularly.

- Press the STOP button and allow the blade to come to a complete stop.
- Press the On/Off button to turn off the mower.
- Lift the battery compartment cover. Remove the battery.
- Slowly turn the mower over. Place it on a soft and clean surface.

- Use a soft brush or damp cloth to remove dirt, dust, oil, grease, etc. from the underside of the mower.

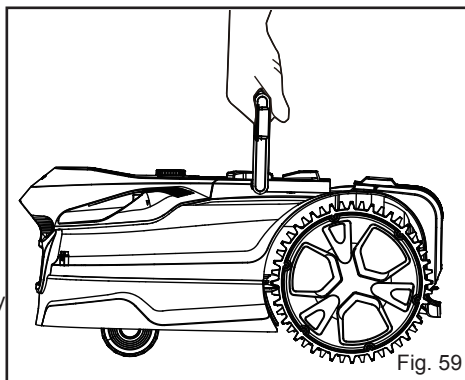
IMPORTANT: Do not wash the mower with running water.

- Wear safety gloves to clean the blade disc, the chassis, and the front and rear wheels thoroughly with a soft brush or damp cloth. Remove any lodged debris around them.
- Make sure the blade disc can rotate freely and all blades can spin freely.

STORING THE MOWER

It is recommended to store the mower indoors during the winter. Storing the mower or battery in sub-zero temperatures can result in damage.

- To optimize the battery longevity, ensure the mower is fully charged before storage during winter.
- Press the On/Off button to turn off the mower. Remove the battery.
- Clean the mower thoroughly.
- Use the carry handle to carry the mower. Carry the mower with the blade disc away from the body (Fig. 59).



- Store the mower indoors in a clean, dry place out of the reach of children.

IMPORTANT: Protect the underside of mower from standing water. NEVER store the mower upside down outdoors.

BATTERY PACK MAINTENANCE

- Fully charge the battery before placing in storage.
- Recharge the battery pack whenever there is a noticeable reduction in the performance. Do not allow the battery pack to become completely discharged.
- Do not recharge a battery pack that is already fully charged. Overcharging shortens battery life.
- Once the battery pack is fully charged, remove the battery from the charger and disconnect charger from the outlet.
- Do not store the battery pack on the tool or on the charger.
- If the battery pack is hot, allow it to cool down before recharging.

Storing the Base Station

- Disconnect the power adaptor from the power outlet.
- The base station can be left outside in the winter.
- It is recommended to place the base station in a dry and sheltered location.

Updating the Software via OTA (Over-The-Air)

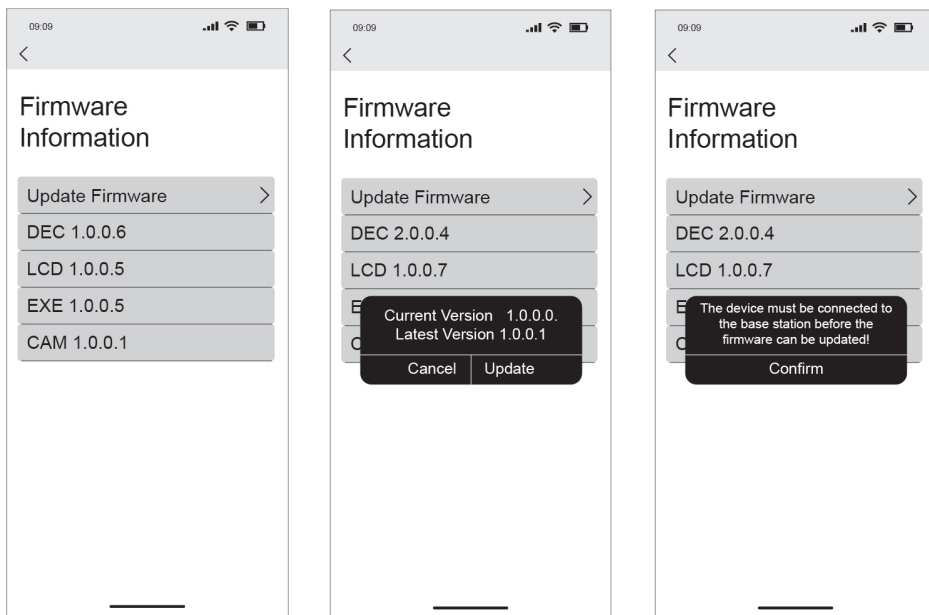
The robotic mower's software can be updated wirelessly through the App using OTA technology. This ensures your mower always has the latest features and improvements.

NOTE: Before updating, the robotic mower must be successfully connected to the app. Ensure your mobile device has a stable Wi-Fi connection.

During the update process, the mower must be placed on its base station, and the base station must be powered on successfully. Ensure the mower remains on the base station with a stable power supply.

- Open the app and navigate to the "Firmware Information" screen showing the current software version. Tap "Update Firmware" to see if a new version is available.
- To start the update, tap "Update". The update process will take several minutes.

NOTE: Do not operate or interrupt the mower during the update.



- After the update is completed, the mower will automatically restart. It is then ready for use.
- Confirm the successful update by checking the "Firmware Information" screen in the app. It will display the new version number. You can also check the new version number in the Software Version page in Security Page on the mower's LCD display.
- If the update fails or an error occurs, please contact the Aftersales Helpline.



The following toxic and corrosive materials are in the batteries used in this battery pack:
lithium-ion, a toxic material.



WARNING

All toxic materials must be disposed of in a specific manner to prevent contamination of the environment. Before disposing of damaged or worn-out lithium-ion battery packs, contact your local waste disposal agency, or the local Environment Protection Agency for information and specific instructions.



WARNING

If the battery pack cracks or breaks, with or without leaks, do not recharge it and do not use it. Dispose of it and replace with a new battery pack.

DO NOT ATTEMPT TO REPAIR IT!

To avoid injury and risk of fire, explosion, or electric shock, and to avoid damage to the environment:

- Cover the battery terminals with heavy-duty adhesive tape.
- **DO NOT** attempt to remove or destroy any of the battery pack components.
- **DO NOT** attempt to open the battery pack.
- If a leak develops, the released electrolytes are corrosive and toxic. **DO NOT** get the solution in eyes or on skin, and do not swallow it.
- **DO NOT** place damaged or defective batteries in your regular household trash.
- **DO NOT** incinerate.
- **DO NOT** place batteries where they will become part of any waste landfill or municipal solid waste stream.
- Take batteries to a certified recycling or disposal center.

Suspected malfunctions are often due to causes that the user can fix themselves. Therefore, check the product using this section. In most cases the problem can be solved quickly.

 WARNING

Only perform the steps described within these instructions!
All further inspection, maintenance and repair work must be performed by an authorized service center or a similarly qualified specialist if you cannot solve the problem yourself!
Gloves and appropriate protective clothing must be worn when performing these instructions.
Always turn off the mower before making any adjustment.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The base station cannot connect.	Wi-Fi signal is weak.	Move the base station closer to the Wi-Fi router or install Wi-Fi signal booster to increase signal strength.
	The signal of the base station is not switched on.	Press and hold the Wi-Fi connection setting button on the base station for 5 seconds to enter pairing mode for the base station. This only lasts for 4 minutes. Make Wi-Fi connection within this duration.
	Your phone is not close to the base station when Wi-Fi pairing.	Move your phone closer to the base station.
App verification email not received.	Email is blocked by email provider.	Allow up to one-minute for this to arrive. Check junk/spam folder.
	Sending the verification request failed.	Retry to send a verification request after the one-minute countdown.
The robotic lawnmower is stuck during mowing.	Grass or other debris is wrapped around the wheels.	Check wheels and remove the grass or objects.
	Grass or other debris is wrapped around the blade disc.	Check the blade disc and remove the grass or objects (always wear gardening gloves).
	The robotic lawnmower has got caught in something.	Free the mower and remove the obstacle.
	The robotic lawnmower is stuck in one area of the garden.	Check if there are any obstacles which make it hard for the robotic lawnmower to move on from this location. Remove the obstacles.



PROBLEM	POSSIBLE CAUSE	SOLUTION
The robotic lawnmower is stuck during mowing.	The mower is stuck in an uneven dip or hollow in the lawn.	Ensure that dips and holes in the lawn are leveled with topsoil and over-seeded with grass seed.
	The lift sensor has been activated as the mower has become trapped.	Free the mower.
The robotic lawnmower fails to start.	The battery is not installed correctly.	Ensure the battery is pushed into the battery slot until it clicks.
	The battery is not fully charged.	Charge the battery.
	Possible clogging.	Remove the battery. Check underneath the mower and clear as necessary (always wear gardening gloves).
	The grass is too long.	Set a higher cutting height.
The robotic lawnmower fails to start.	The battery is defective.	Replace the battery.
	Defective On/Off Button.	Contact the Aftersales Helpline.
The robotic lawnmower leaves the lawn.	Incorrect barriers are used for defining the working area.	Adjust borders/barriers correctly for defining the working area. Make improvements or temporary barriers if necessary. Refer to Defining the Mowing Area on page 18-22.
	The ultrasonic sensors are turned off.	Turn on the ultrasonic sensors according to instructions on page 38.
	The working area is steeper than 35%.	Restrict the area that is steeper than 35%.
The robotic lawnmower has difficulty docking.	The base station is on a slope.	The mower will have difficulty identifying the guide strips. Place the base station on a surface that is entirely level.
	Poor connection caused by debris on the charging strips.	Clean the contact strip located on the base station and the charging strips on the mower using a cloth.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The robotic lawnmower has difficulty docking.	The grass around the base station is too high.	Trim the grass around the front of the base station to ensure smooth docking.
	Base station is not located correctly or is covered by a metal covering.	Check to make sure the base station arrangement is correct. Remove any metal covering away from the base station location. Refer to Selecting the Base Station Location on page 23.
The robotic lawnmower is stuck in the base station.	There is an object in the way of the robotic lawnmower preventing it from leaving the base station.	Remove the object.
	The grass around the base station is too high.	Trim the grass around the front of the base station to ensure smooth docking.
The robotic lawnmower does not mow when expected/ The robotic mower keeps returning to the base station.	Incorrect Schedule settings.	Check the Schedule settings. The mower will begin and end its work based on the set time window. Outside this time window the mower stays in the base station. Ensure the local time and date settings are correct.
The robotic lawnmower does not mow when expected/ The robotic mower keeps returning to the base station.	The rain sensor is triggered.	Wait until the mower is dry and the delay time is finished.
	The robot mower was sent home manually using the home button.	Start the mower according to instructions on page 41-43.
	The Stop button was pressed while the mower was on the charging station.	Start the mower according to instructions on page 41-43.
The robotic lawnmower is upside down.	The robotic lawnmower has tilted too much or is flipped over.	Turn the robotic lawnmower the right way up and rectify the reason for it getting turned over.
Collision sensor problem, front/rear.	Mower body cannot move freely around its chassis.	Check that the mower body can move freely around its chassis. If the problem remains, contact the Aftersales Helpline.
Unknown problem with control or function.	Temporary electronic or software related issue in the mower.	Switch off the mower. Restart the mower. Download and install the latest software update. If the problem remains, contact the Aftersales Helpline.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The robotic lawnmower runs to the base station, but the blade disc does not rotate.	The robotic lawnmower searches for the base station.	This is normal. The mower needs to recharge. The blade disc does not rotate while it is searching for the base station automatically.
The robotic lawnmower vibrates.	Cutting blades are damaged.	Replace the blades. Refer to Replacing the Mower Blades section on page 50-51. Visit www.lawnmaster.com for info on where to buy blades. Refer to the parts list on page 65.
	Too many blades in the same position lead to imbalance in the cutting system.	Check that only one blade is fitted at each screw and that blades are not stuck.
	Different types (thickness) of blades are used.	Check if the blades are of different types (thickness).
	The blade screw is loose.	Tighten the blade screws.
Grass is being cut unevenly.	Working area is too big.	Adjust the boundary to decrease the size of the mowing area or add more working time.
Grass is being cut unevenly.	Blades are dull.	Replace all the blades and screws. Refer to Replacing the Mower Blades section on page 50-51. Visit www.lawnmaster.com for info on where to buy blades.
	Height of cut is too low, or the grass is too high.	Increase the height of cut.
	There is grass wrapped around the blade disc.	Check underneath the mower and clear as necessary (always wear gardening gloves).
The charging time is much longer than 2 hours.	The charging strips and contact strip are obstructed by debris.	Use a cloth to clean the contact strip located on the base station and the charging strips on the mower.
	Charging protector has activated due to high temperature.	Place the base station in a shady area or wait until the temperature has cooled down.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The robotic lawnmower does not charge.	No power.	Make sure the power cord is connected properly to the power adaptor and the power adaptor is connected to a suitable power supply. Check the wall socket connection and whether an earth-fault breaker has tripped.
	The charging strips and contact strip are contaminated.	Use a cloth to clean the contact strip located on the base station and the charging strips on the mower.
	Socket outlet, fuse, mains cable or base station is defective.	Check the mains voltage and fuse, if necessary have the base station checked by qualified person.
	The battery has a fault.	Contact the Aftersales Helpline.
Run time is shorter than expected.	Height of cut is too low, or the grass is too high.	Increase the height of cut.
	The grass is wet or damp.	Wait until the grass is dry.
	The grass is dense.	Increase the height of cut and add more working time.
The cutting blade is not rotating while the mower is switched on.	The cutting blade is obstructed.	Switch off the mower and remove the battery. Clear obstruction (always wear gardening gloves).
	The blade screw is loose.	Tighten the blade screws.
The cutting blade is not rotating while the mower is switched on.	The mower cannot detect grass	Place the mower in an area with grass. Brown patchy lawn may not be recognized by the camera.
LED on the base station does not turn on.	No power supply.	Check the power adaptor, cord, breakers, and fuses.
The robotic mower fails to recognize the magnetic strip and travels over it and past it.	The magnetic strip is laid too deep in the ground.	Lay the magnetic strip on the ground or at a depth of approx. 5 cm in the ground.
	The outside temperature is too high.	Wait for the temperature to cool. Avoid operating the mower during the hot hours of the day.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The robotic mower stops or travels out of control when it is near the boundary area with magnetic strip.	Magnetic strips are laid too close together.	Keep a distance of at least 120 cm between two boundary areas with magnetic strips.
	Interference arises in the mowing area due to electric cables.	Avoid electric cables which run through the mowing area. Keep away from mowing areas of your neighbors, which are operated with a perimeter wire.
Bad GPS signal/ no valid GPS data.	Environmental factors	Move the mower to areas with open terrain. Keep the mower far from buildings.
	Equipment problems	Regularly check and maintain the mower to ensure that the GPS module is working properly. If the GPS module is damaged, contact the Aftersales Helpline.
	Weather influence	Do not let the mower operate in bad weather.
	Battery level is insufficient.	Charge the battery. Keep the battery power sufficient.

ERROR INFORMATION DISPLAY ON THE LCD PANEL

If sensors of the robotic mower have been activated, the mower will beep 10 times continuously. The error information will display on the LCD panel.

ERROR INFORMATION	POSSIBLE CAUSE	SOLUTION
Wheel slip	Wheel slipping	Free the mower and remove the obstacle.
Control system error	Control system fault	Switch off the mower. Restart the mower. If the problem remains, contact the Aftersales Helpline.
Outside border	Mower has left the lawn and cannot detect grass.	Refer to solutions for "The robotic lawnmower leaves the lawn" in Troubleshooting on page 56.
Battery error	Battery fault	Change the battery. If the problem remains, contact the Aftersales Helpline.
Mower lifted	The mower has become lifted.	Free the mower and remove the obstacle.
Motor fault	Motor fault	Switch off the mower. Restart the mower. If the problem remains, contact the Aftersales Helpline.
Rolling over	Mower is upside down or tilted too far.	Free the mower and remove the obstacle.
Battery too hot/cold	Temperature of battery pack is too high or too low.	Allow the battery pack to cool to normal temperature.
Mower tilted	The mower has become tilted.	Free the mower and remove the obstacle.
Stop button error	Stop button error	Switch off the mower. Restart the mower. If the problem remains, contact the Aftersales Helpline.
Rain sensor triggered	Rain sensor has been triggered.	Wait until the mower is dry and the delay time is finished.
Too close to station	The mower is too close to or on the base station when performing a spot cut or the home button is pressed.	Move the mower away from the base station.

ERROR INFORMATION	POSSIBLE CAUSE	SOLUTION
Magnetic sensor error	The magnetic sensor has a fault.	Switch off the mower. Restart the mower. If the problem remains, contact the Aftersales Helpline.
No camera signal	No signal to camera	Switch off the mower. Restart the mower. If the problem remains, contact the Aftersales Helpline.
No GPS data	GPS signal abnormal at startup	Move the mower to an open ground. Switch off the mower. Restart the mower.
Far from home	The robotic lawnmower is 1 kilometer away from charging station.	This is a theft prevention setting. Ensure the mower is operated in Drop and Mow mode when using the mower at a property more than 1km away from home.
Ribbon not visible	Guide strips on the base station are not visible.	Clean the guide strips on the base station. If the problem remains, contact the Aftersales Helpline.
Close battery hatch	Battery compartment cover is open.	Close the battery compartment cover.
Low voltage	The battery voltage is too low.	Charge the battery.
No battery	No battery in the mower	Ensure the battery is correctly installed.
Cutter fault	Mowing motor fault	Switch off the mower. Restart the mower. If the problem remains, contact the Aftersales Helpline.
Cutter blocked	Blade disc is blocked.	Check underneath the mower and clear as necessary (always wear protective gloves).
Docking Failed	Base station is disconnected or not powered on.	Check to make sure that the base station is not blocked, the guide strips on the base station are clear and the base station is powered on.
Too dark	The mower is activated outside the sunrise and sunset range.	Check the Schedule settings. The mower will begin and end its work based on the set time window. Ensure the local time and date settings are correct.

LAWNMASTER® WARRANTY

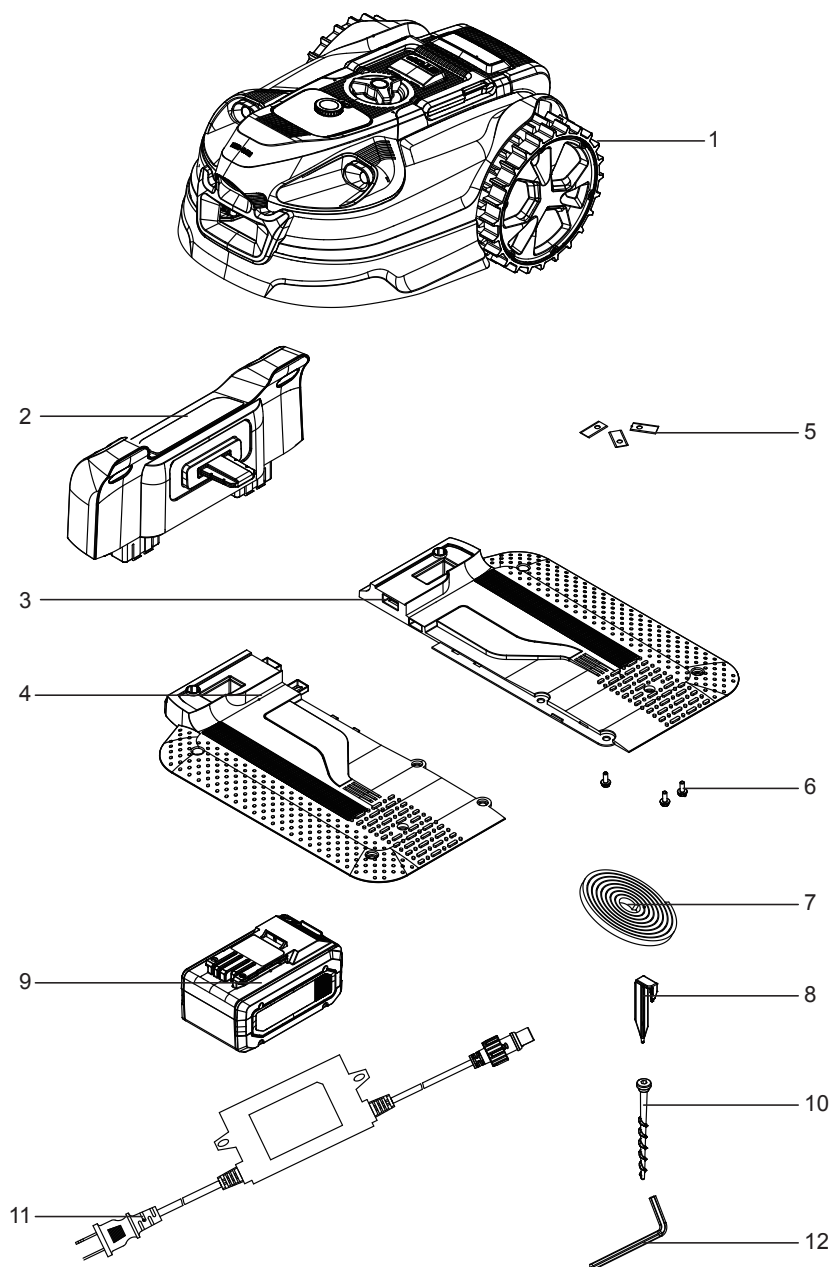
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We take pride in producing a high quality, durable product. This Lawnmaster® product carries a limited two (2) year warranty against defects in workmanship and materials from date of purchase under normal household use. If product is to be used for commercial, industrial or rental use, a 30 day limited warranty will apply. **Batteries carry a one-year warranty against defects in workmanship and materials.** Batteries must be charged in accordance with the operator's manual directions and regulations in order to be valid. Warranty does not apply to defects due to direct or indirect abuse, negligence, misuse, accidents, repairs or alterations and lack of maintenance. Please keep your receipt/packing list as proof of purchase. This warranty gives you specific legal rights, and you may have other rights, which vary from state to state. For product service call Customer Service at 1-866-384-8432.

Items not covered by warranty:

1. Any part that has become inoperative due to misuse, commercial use, abuse, neglect, accident, improper maintenance, or alteration;
2. The unit, if it has not been operated and/or maintained in accordance with the owner's manual;
3. Normal wear, except as noted below;
4. Routine maintenance items such as lubricants, blade sharpening;
5. Normal deterioration of the exterior finish due to use or exposure.

SAVE YOUR RECEIPTS. THIS WARRANTY IS VOID WITHOUT THEM.



PARTS LIST

Key Number	Part Number	Description	Quantity
1		Mower Assembly	1
2		Upper Part of the Base Station	1
3		Left Base Part of the Base Station	1
4		Right Base Part of the Base Station	1
5		Spare Blade	6
6		Screw for Blade	6
7	523113	Magnetic Strip (16.4 ft / 5 m)	4
8		Magnetic Strip Peg (10 pcs)	4
9	24LB4005-CN	Battery	1
10		Base Station Fixing Screw	10
11		Power Adaptor	1
12		Hex Key	1

Replacement parts highlighted in grey are available for after sales purchase. Replacement of repair or internal parts should only be done by a qualified service professional. Please contact your authorized service dealer or Customer Service at 1-866-384-8432.

Below parts are available, please call 1-866-384-8432 to order.

Part	Part Number
Anti-Slip Wheel and Screw	952688
Garage	952642
Blade Assembly Pack of 15	523830



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NOTES

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