





WWW.ROBOMOW.COM / WWW.ROBOMOW.EU

DOC0100D

Everything you need to know about Robomow is in this manual.

The instructions are simple and user-friendly.

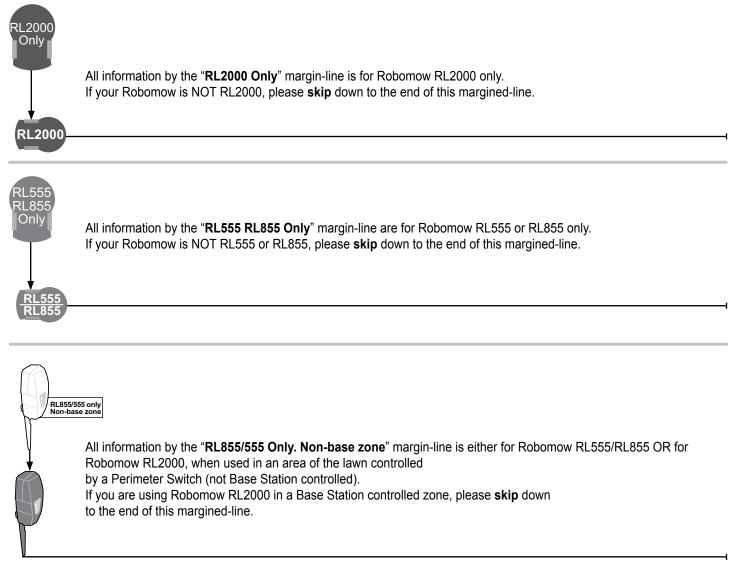
The manual is to be used for:

- 1. Robomow RL2000
- 2. Robomow RL555 and Robomow RL855

Most instructions in this manual are for ALL models.

Some parts are intended for specific models or specific configurations.

Model-specific paragraphs



No sign to All information with no special sign is relevant to **ALL** models of Robomow.

Model specific short text

Short text next to this sign RL2000 is relevant to Robomow RL2000 only.

Short text next to this sign RL555 is relevant to Robomow RL555 or RL855 only.

EU Declaration of Conformity

Manufacturer: F. Robotics Acquisitions Ltd.

Hatzabar St., Industrial Zone P.O.Box 1412 Pardesiya, 42815 Israel

The products covered by this Declaration

24 Volt Battery operated Automatic Lawn Mower model RL2000 (with Base Station)

24 Volt Battery operated Automatic Lawn Mower model RL855/555 (with Perimeter Switch)

F. Robotics Acquisitions Ltd. declares under sole responsibility that the products identified above conforms with the protection requirements of the EMC directive and with the principal elements of the safety objectives of the Low Voltage Equipment directive, and that the following standards have been applied:

- EMC

EN 55014-1:2006 & EN 55014-2:1997 + A1:2001 (Robomow) EN 55024:98 + A1:2001 + A2:2003 + EN 55022:1998 + A1:2000 + A2:2003 (Charging Station)

- Electrical Safety

BS EN 60335-1:2002 *AMD1 15172, 2002 *AMD2 15626, 2005 *AMD4 15051, 2004 *AMD5 15536, 2005 *AMD6 16671, 2007 BS EN 50338: 2006 AMD1 16778, 2006

 Machinery Directive Essential Health and Safety Risk Assessment EN 1050

- Noise Directive

To BS EN ISO 3744: 1995 and *ISO 11094: 1991. With reference to Outdoor noise directive 2000/14/EC: Amended by directive 2005/88/EC and the corrigenda table 1. Article 12: Test code of Annex III Part B Item 32.

Sound level

Measured sound power level: LwA = 76.6 dB Guaranteed sound power level: LwA = 80 dB

· EMF

BS EN 50366: 2003 amd1 16426, 2006

EMC Competent Body	All Others Directives Competent Body
QualiTech	SGS UNITED KINGDOM LIMITED
30, Hasivim Street	Rossmore Business Park
P.O. Box 3083	ELLESMERE PORT
Petah Tikva 49130	CH65 3EN South Wirral Cheshire
Israel	United Kingdom

The technical documentation kept by Mr. Dedy Gur, QA director.

Address: Hatzabar St., Industrial Zone P.O.Box 1412 Pardesiya, 42815 Israel.

I hereby declare that the above product conforms to the requirements as specified above.

Shai Abramson – Senior VP R&D

F. Robotics Acquisitions Ltd. 1 December 2009

Introduction - 1







The products are manufactured by F. Robotics Acquisitions (Friendly Robotics).



CE approved.

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Welcome to the world of home robotics with the Friendly Robotics Robomow!

Thank you for purchasing our product. We know that you will enjoy the extra free time you will have while using Robomow to mow your lawn. When set up and used properly, Robomow will operate safely on your lawn and provide you with a quality of cut matched by a few mowers of any kind. You will be impressed with your lawn's appearance and best of all, Robomow did it for you.

IMPORTANT!

The following pages contain important safety and operating instructions. Please read and follow all instructions in this manual. Carefully read and review all safety instructions, warnings and cautions contained in this manual. Failure to read and follow these instructions, warnings and cautionary statements

may result in severe injury or death to persons and pets or damage to personal property.

Warning Decal Definitions

These are the symbols on Robomow[®]; Read them carefully before operating Robomow[®].

DANGER! Sharp rotating blades. Keep hands and feet away. Serious injury can occur. Caution – Do not touch rotating blade(s)

CAUTION! Remove Power Pack before attempting to lift the mower for any reason.





- 1. Safety alerts symbol WARNING this is a dangerous power tool. Use care when operating and follow all safety instructions and warnings.
- 2. Read operator's manual Read user instructions before operating your Robomow®
- 3. Hazard of Thrown or flying objects Whole body exposure, take caution.
- 4. Keep a safe distance from the machine when operating
- Keep people in particular children, pets and bystanders away from the area in which Robomow is being used.
- Severing of toes or fingers Rotary mower blade Risk of injury from rotating cutting blade. Keep hands and feet away and do not attempt to lift Robomow from this area.
- 6. Remove the disabling device before working on or lifting Robomow[®]. **Remove the Power Pack before working on or lifting Robomow[®]**.
- 7. Do not ride on Robomow[®].

Do not dispose Robomow[®] or any other part of it as unsorted municipal waste – it should be collected separately.





Safety Warnings & Precautions

<u>Use</u>

- 1. Read this Operating and Safety Manual carefully and be familiar with the controls and the proper use of Robomow[®] before operating Robomow[®].
- 2. Never allow children or people unfamiliar with these instructions to use Robomow®.
- 3. Never mow while people, especially children, or pets are nearby.
- 4. It is strongly recommended to use the CHILD GUARD or ANTI THEFT (4 PIN code) option in order to prevent operation by children or others who are not familiar with Robomow[®] operation.
- 5. Never let Robomow[®] operate without supervision.
- 6. The operator or user is responsible for accidents or hazards occurring to other people or their property.
- 7. Wear eyes protection and use gloves when installing the perimeter wire and driving the wire stakes/pegs. Firmly drive all pegs in order to keep the wire from becoming a tripping hazard.
- 8. Make sure to layout and install the perimeter wire according to the instructions.
- 9. Periodically inspect the area mowed by Robomow[®], and remove stones, sticks, wires, bones and other objects. Objects struck by the blades may be thrown and cause severe injuries to people.
- 10. In case of abnormal vibrations, stop the mower, remove the power pack and visually check for any damage of the blade or mowing deck. Replace worn or damaged blades to preserve balance. If vibration continues, call for service.
- 11. Keep hands and feet away from the cutting blades and other moving parts.
- **12.** Always remove the Power Pack before lifting the mower or attempting any adjustments. Do not to touch the blades before the blades have come to a complete stop.
- 13. Never attempt to service or adjust the mower while it is in operation.
- 14. When programming the automatic departure times and days, do not leave the machine to operate unattended if you know that there are pets, children or people in the vicinity.
- 15. Do not use Robomow[®] for any purpose other than for which it is intended.
- 16. Do not operate Robomow[®] if any safety feature or device is damaged or inoperable.
- 17. Never allow anyone to ride or sit on mower.
- 18. Warning! When there is a risk of a lightning storm, disconnect the perimeter wire from the Base Station/ Perimeter Switch and the Power Supply 230V/120V plug from the mains socket.
- 19. Keep all guards, shields, safety devices, and sensors in place. Repair or replace damaged parts, including decals. Do not operate Robomow[®] if any parts are damaged or worn.
- 20. Never pick up or carry this appliance while the motors are running.
- 21. <u>Transport</u> to safely move from or within the working area:
 - 1. Use caution when lifting Robomow, it is heavy! Before lifting it, always take out the battery.
 - 2. Use the Manual Controller to drive it from place to place.
 - 3. In case of different height level or stairs, remove the Power Pack from the mower and carry the mower by the carrying handle (See Introduction 8).

Using Manual Controller

- 22. Mow only in daylight or in a good artificial light and avoid operating in wet grass;
- 23. Do not operate Robomow® when barefoot or wearing open sandals. Always wear substantial footwear and long trousers;
- 24. Always be sure of your footing on slopes;
- 25. Use extreme caution when reversing the appliance towards you;
- 26. Always switch on the motor according to instructions with feet well away from the blades;
- 27. Do not mow manually in slope greater than 15 degrees or where a firm footing is not possible;

Maintenance

- 28. Always remove the Power Pack from the Robomow[®] in the following cases: before clearing blockage/ checking/ cleaning/ working on Robomow[®] or replacing the blades.
- **29.** Always remove the Power Pack from the Robomow[®] after striking a foreign object or whenever Robomow[®] starts vibrating abnormally.
- 30. Use heavy gloves when inspecting or servicing the blades.
- 31. Do not open or mutilate the power pack. Released electrolyte is corrosive and may damage the eyes or skin.

- 32. Replace worn or damaged parts for safety;
- 33. Use only the original equipment and accessories. It is not permitted to modify the original design of Robomow[®]. All modifications are made at your own risk.
- 34. Ensure that batteries are charged using the correct charger recommended by the manufacturer. Incorrect use may result in electric shock, overheating or leakage of corrosive liquid from the battery;
- 35. Maintenance/ Servicing of Robomow® should be according to manufacturer instructions;
- 36. A spark may be created when inserting the power pack or fuse to the robot. Therefore it is forbidden to perform these tasks close to flammable materials. It is also forbidden to use spray or any other cleaning materials for cleaning electronic contacts, due to this risk of inflammation when inserting the power pack or fuse.

Product end of use

- 37. Robomow and its accessories should be collected separately at the end of their life to prevent waste electrical and electronic equipment from ending up in landfill sites, to promote the reuse, treatment and recovery of electrical and electronic equipment in purpose to preserve, protect and improve the quality of the environment, protect human health and utilize natural resources prudently and rationally.
- 38. Do not dispose Robomow or any other part of it (including the Charger, Base Station and Perimeter Switch) as unsorted municipal waste it should be collected separately.
- 39. Ask your local distributor/dealer about return and collection systems available.
- 40. Do not dispose of the battery pack in a fire and do not place used batteries in your household trash. The battery must be collected, recycled, or disposed of in an environmentally sound manner.

Robomow® - Safety Features

1. Child Guard / Safety Guard

This menu option offers a safety feature to help prevent children or others not familiar with the safe operation of the mower to operate it freely.

2. Lift Sensor

There is a sensor located on the front of the mower. In the event the mower is raised from its resting position on the ground during blade operation, the blades will stop rotating immediately (< 1 second).

3. Sensor Equipped Bumpers

The front and rear bumpers are equipped with contacts that will activate when the mower strikes a solid, fixed object. When the bumper sensor is activated, the mower stops the blades immediately and reverses itself away from the obstacle.

4. Emergency Stop Switch

The STOP button is located on the Manual Controller. Pressing this button at any time during operation will stop all mower movement and the rotation of the blades immediately.

5. Two-Step Operator Presence Control

While in manual mode, it requires two independent finger actions in order to engage the mower blades. Once engaged, the mower blade button must remain depressed to continue blade operation. Once released, the two-step engagement process must be repeated.

6. Sealed Batteries

The batteries that operate the Robomow are completely sealed and will not leak any type of fluids, regardless of position.

7. Perimeter Switch and Perimeter Wire

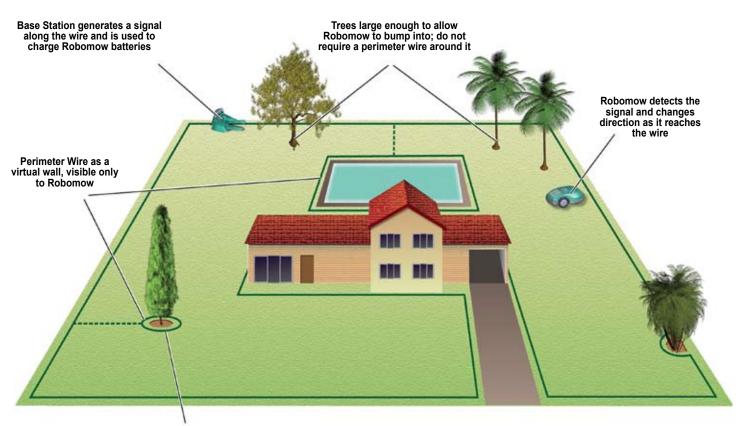
The Robomow cannot operate without a perimeter wire installed and activated through the Base Station/ Perimeter Switch. In the event the Perimeter Switch is turned off or otherwise fails to function, the Robomow will stop operating.

8. Automatic departure warning alert

When the mower is scheduled to depart the Base Station automatically per a scheduled time, a warning sound and the operating lamp will activate 5 minutes prior to departure. This is a warning notification to clear and inspect the area.

How It Works

- A one-time setup is required before operating Robomow; a small wire, called the perimeter wire, is placed around the edge of the lawn and any other areas where you do not want the mower to enter.
- Small pegs are supplied with Robomow and they are used to fasten and hold the perimeter wire to the ground, below grass level; the wire will soon disappear under the growth of new grass and will not visible.
- The Base Station is placed along the perimeter wire and it has two main functions:
 - To generate a small signal along the perimeter wire (very low voltage);
 - To charge Robomow batteries.
- After completing the one-time set-up of wire around the lawn including the Base Station set the weekly program and forgets about mowing for the entire season!
- Robomow will leave the Base Station on the day and time scheduled in the automatic weekly program; it will mow the lawn and will drive back for charging in the Base Station to be ready for the next operation.
- When Robomow leaves the Base Station it automatically starts the signal carried through the Base Station; the signal creates a virtual wall, which is visible only to the Robomow, keeping it inside the lawn preventing it to cross over area where you do not want it to enter.



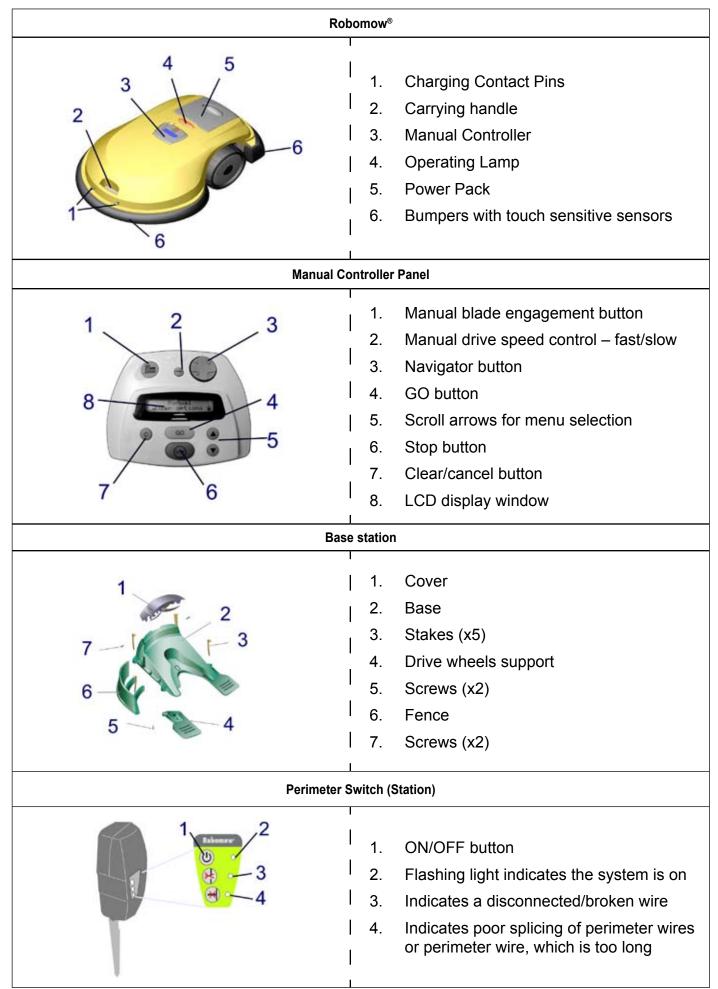
Tree with hole or flowers around; require placing a wire around it

Robomow® It mows. You don't."

What's in the Boxes



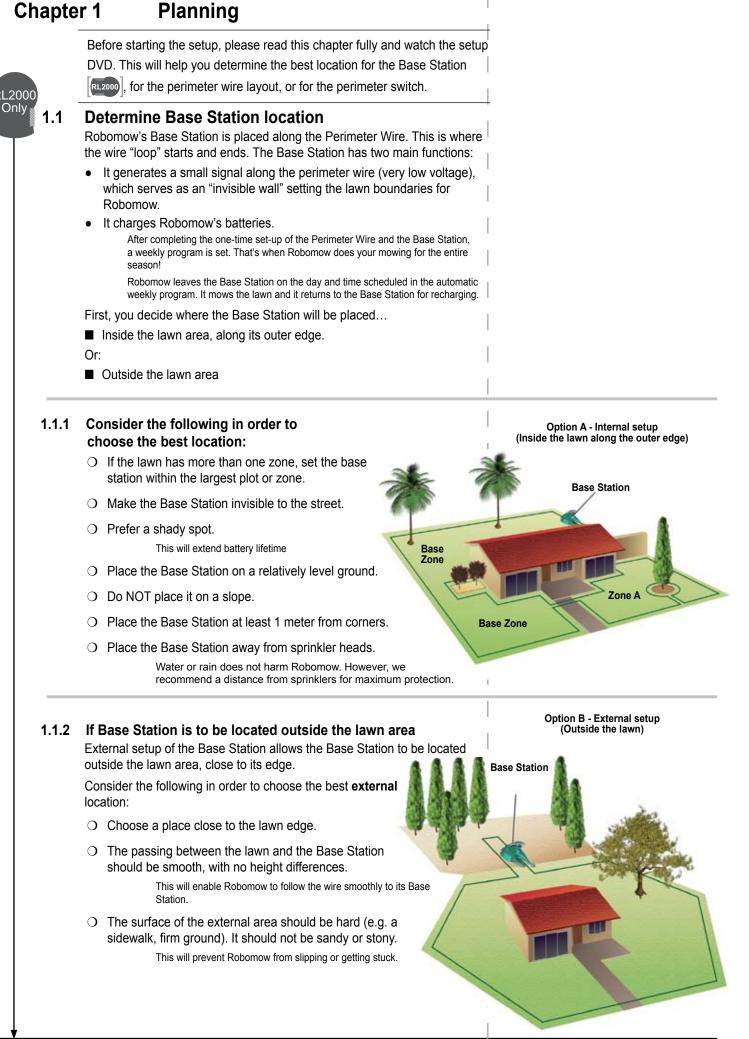
Name of the Parts

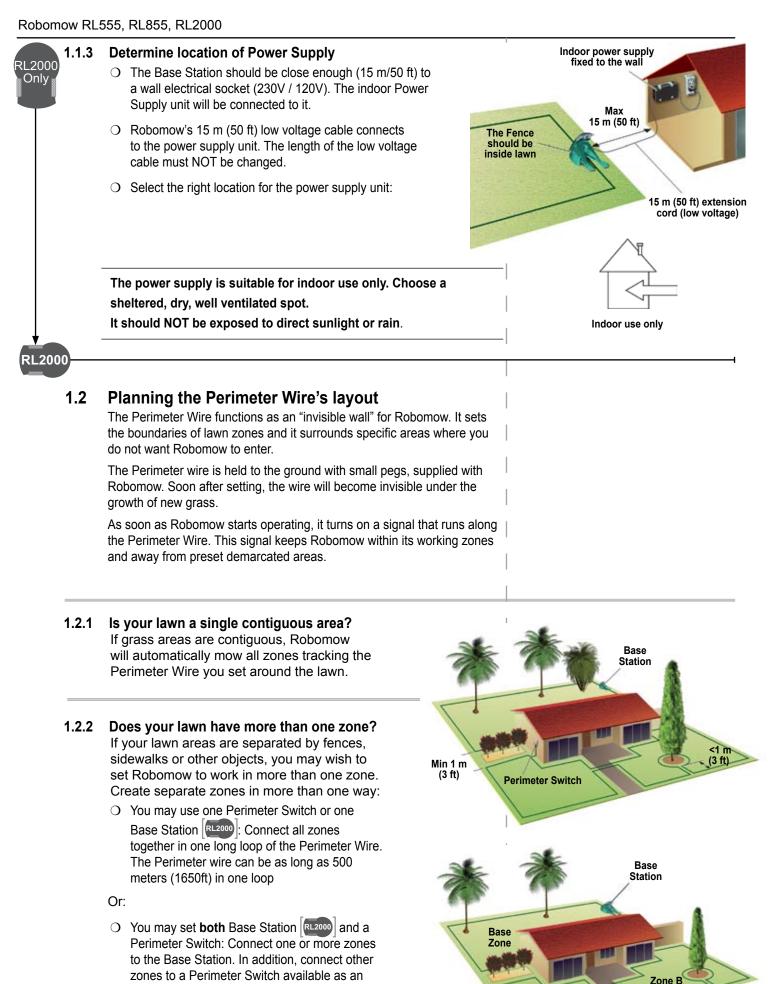


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anter 1 Planning





accessory for RL2000.

The Perimeter Switch may be moved from one zone to another.

To switch zones, Robomow will be driven or carried to the proper location.

Maximum length of

wire connected to the

Base Station in one

loop is 500 m (1650 ft)

Zone A

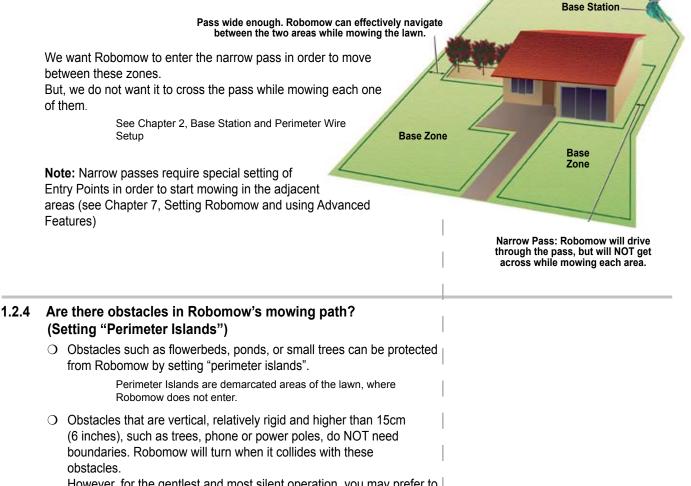
While the picture shows two wires

separate, they should be adjacent

1.2.3 Will Robomow be driving through a narrow pass in order to move between two connected zones?

A narrow pass is part of the lawn that connects two larger zones. The width of this pass determines how it should be set-up.

If the pass	Setup:
Is walled (fence, building, etc) and width is More than 2.00m (6.6 ft) OR Edge of pass is an open area and width is more than 1.70m (5.6 ft)	Regular setup, as Robomow can navigate between the areas while mowing. (Refer to paragraph 2.1.2).
Is walled (fence, building, etc) and width is $1.5m - 2.00m (4.9 - 6.6 ft)$ OR Edge of pass is an open area and width is $1.1m - 1.70m (3.6 - 5.6 ft)$	Set as a "Narrow Pass": Robomow will drive through the pass, but will NOT get across while mowing each area. (Refer to paragraph 2.2.2).
Is walled (fence, building, etc) and width is smaller than 1.5m (4.9 ft) OR	Pass is too narrow.
Edge of pass is open area and width is smaller than 1.1m (3.6 ft)	Set the areas as 2 separate zones.



However, for the gentlest and most silent operation, you may prefer to create Perimeter Islands around all fixed objects in the working area.

O If areas with obstacles are grouped closely together, they should be demarcated by a single, continuous, Perimeter Island.

Chapter 2 Base Station and Perimeter Wire Setup

Recommendation, before you start:

During setup, you will insert pegs into the ground. To make this task smoother, we recommend you mow your lawn and water it before starting.

Getting Ready

Confirm all parts needed for setup are within reach (refer to 'What's in the Box, Introduction).

In addition, you will use the following tools:





2.1 **Perimeter Wire Setup**

L2000

Only

Before you start the setup, you should have a plan for the Perimeter Wire layout and for the location of the Base Station RL2000.

Laying the Perimeter Wire for the Internal setting of the Base Station is different from the External setting.

2.1.1 Starting Point: Perimeter Wire at the Base Station area.

RL2000 Place the Base Station, according to your plan, with its fence \mathbf{O} facing the inner lawn area. Pull the plot connector and the wire connected to it out of the plastic covering.



Do NOT remove the wire spool from its covering. The plastic covering is the dispenser for the wire.

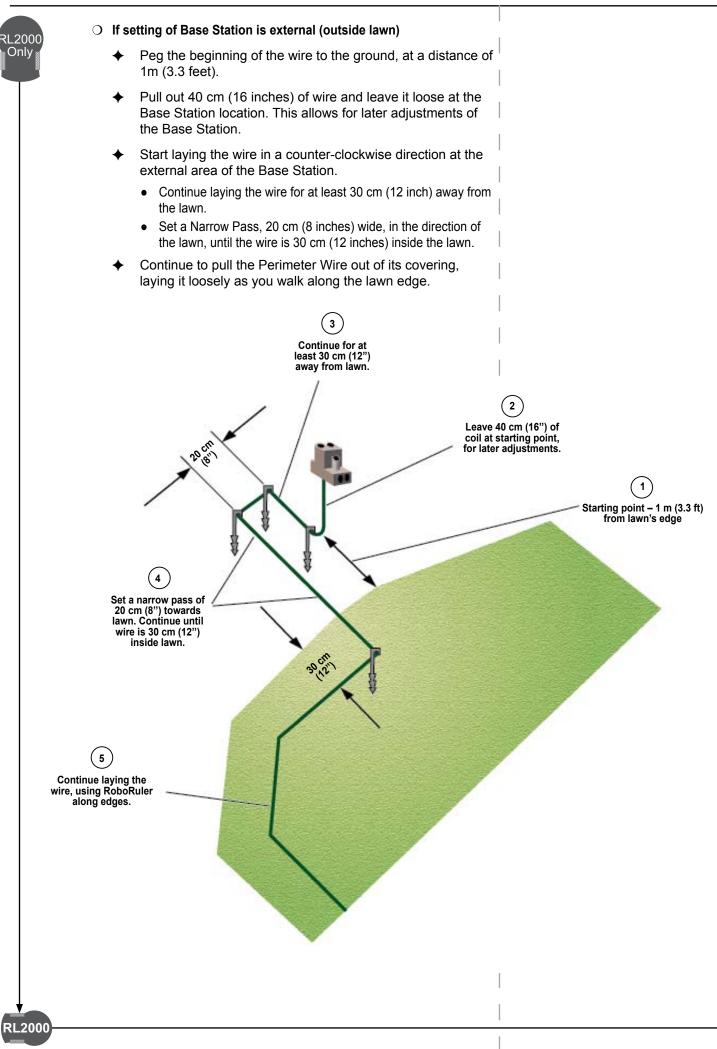
O If setting of Base Station is Internal (inside lawn)

- Peg the beginning of the wire to the ground, where Base Station will be located.
- Pull out 30 cm (12 inches) of wire and leave it loose at the Base Station location. Later, at the end of the setup this part of the wire will close the Perimeter Wire loop.
- Start laying the wire in a counter-clockwise direction.
- Continue to pull the Perimeter Wire out of its covering, laying it loosely as you walk along the lawn edge.

Perimeter Wire - do not remove the plastic covering

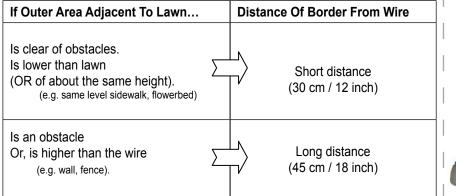
Counter-clockwise direction of wire layout

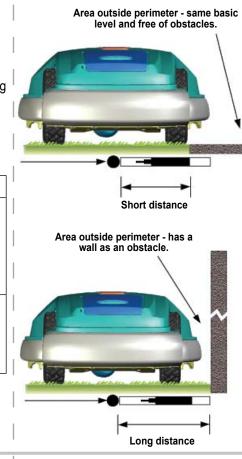




L2000 2.1.2 Laying the Perimeter Wire

- The Perimeter Wire is secured to the ground by the pegs supplied with Robomow. Insert pegs every few meters and at corners. At this early stage set a minimum number of pegs. Later, after testing the wire setup, you will insert all necessary pegs.
- Continue laying the wire, according to your plan. Gradually pull it out of its dispenser and lay it loosely as you are moving in a counterclockwise direction.
- After uncoiling sections of wire, before inserting pegs, use the RoboRuler to determine the distance of the wire from lawn edge or obstacles.



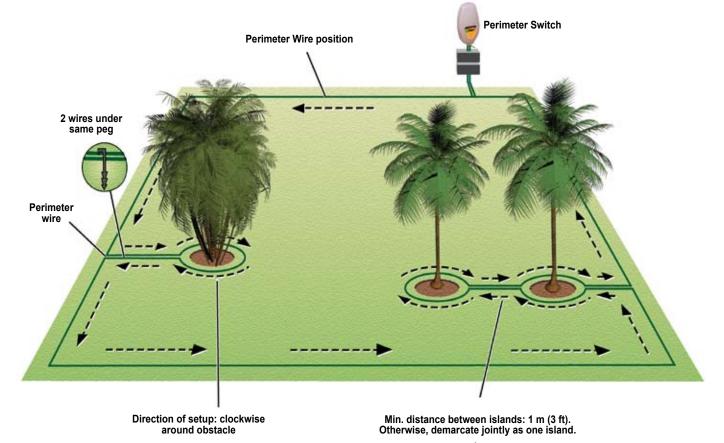


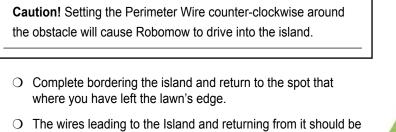
2.2 Special cases of Perimeter Wire setup

2.2.1 Perimeter islands

Continue uncoiling the wire, moving from the edge towards the obstacle.

Apply RoboRuler's "short distance" to peg the Perimeter around the obstacle as shown in the drawing (clockwise direction).





- parallel and touching. BUT DO NOT cross them!
- O Peg both wires, to and from the island, together with the same peg.

Robomow will not recognize these two wires. It will mow over them as if they do not exist. Robomow will recognize the single blocking wire around the Perimeter Island and will not enter this area.

If protected obstacles are grouped closely together, demarcate them by a single, continuous, Perimeter Island.

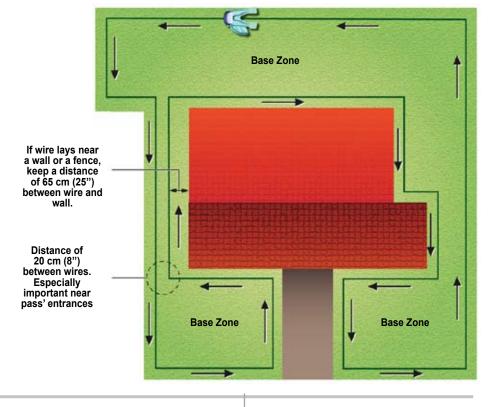
If obstacles are close to the edge, leave them out of the mowing area.

2.2.2 Narrow passes

A narrow pass is part of the lawn which connects two larger zones. Following the Perimeter Wire, Robomow drives between these zones. But, it does not cross the pass while mowing each one of them.

- Set the two wires parallel along the pass at a fixed distance of 20 cm (8 inches) between them (Marked on RoboRuler).
 - If the distance between the wires is smaller than that, the two areas should be set as 2 separate zones.





2.2.3 A pond, swimming pool, or watercourse at lawn's edge OR:

Grass level more than 70 cm (2 ft) higher than outer area.

- O Set the Perimeter Wire at least 1.2 m (4 ft) from the water (or chasm).
- O You may provide a fence or another barrier along the lawn's edge by the water, so Robomow will surely detect it.
 - The barrier should be at least 15 cm (6 inch) high. This will block Robomow, under all circumstances, from crossing over the Perimeter Wire into the water area.
 - If such a barrier exists, you may set the Perimeter Wire at the regular distance of 30 cm around island or 45 cm from the lawn's edge.

2.2.4 Slopes

Perimeter slope

- O If a slope is steeper than 15 cm rise per 1 meter (0.5 ft rise per 3.3 ft), do NOT lay Perimeter Wire over it.
 - However, if there is a barrier (e.g. fence, wall, or hedge) that can protect the mower from sliding off, the Perimeter Wire can be set on that slope.

In-lawn slopes

- O Robomow can mow areas that have less than a 27% slope (roughly 27 cm per 1 meter / 0.9 ft rise per 3 ft).
- O Tip: If Robomow tilts off the ground while climbing a slope, it is too steep. Exclude this steep area from Robomow's cutting area.

2.3 Fastening Perimeter Wire to the Ground

- O It is not necessary to bury the perimeter wire, though you may do so, up to 10 cm (4 inches) deep.
- O Upon hammering the peg to its final depth in the ground, pull the wire tight.



WARNING!

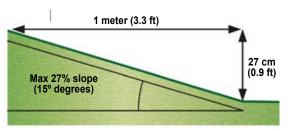
Protect your eyes!

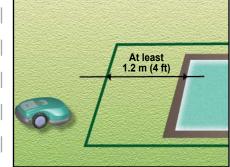
Protect your hands!

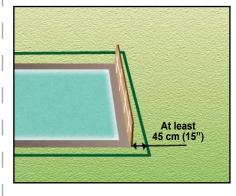
Use proper eye protection and wear appropriate work gloves when hammering the pegs. Hard or dry ground may cause pegs to break when driving them in.

Watering the lawn where the pegs are to be inserted can make vour work safer.











- O Insert the pegs at distances that will keep the wire down below the grass level and prevent the wire from becoming a tripping hazard
- O The wire and the pegs will soon become invisible under the growth of new grass.
- O If additional wire is required in order to complete the setup, connect it using the water-proof wire connectors supplied with Robomow. (Refer to paragraph 10.7 Splicing the Perimeter Wire).

IMPORTANT I

Use only the wire connectors supplied with Robomow.

Neither Twisted cables, **nor** a screw terminal insulated with insulation tape are a satisfactory splice.

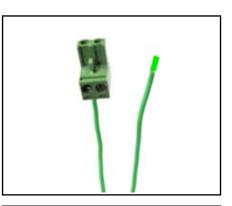
Soil moisture will cause such conductors to oxidize and which later leads to a broken circuit.



Back at Base Station – Completing the Perimeter Wire setup

Once the Perimeter Wire loop is completed and pegged to the ground, you complete the setup by attaching the beginning and end of the Perimeter Wire to the Base Station board.

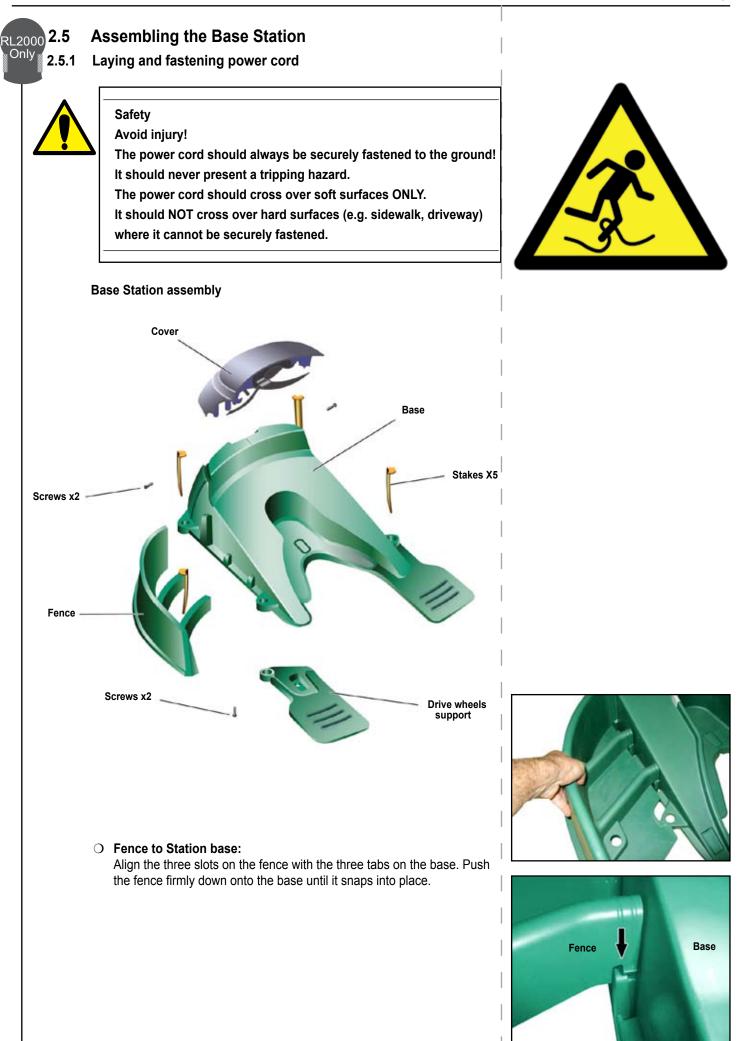
- O Hold both ends of the Perimeter Wire: the wire that started the loop is the one with an attached connector.
- O Trim the end without the connector to make both of equal length. Remove any excess wire and Strip back 5 mm (0.2 inches) of insulation from the wire end.
- O Peg the two perimeter wires down to the ground using the same peg leaving enough loose wire.
 Twist together the two loose parts.
- O Thread the two twisted wire ends through the center aperture in the Base Station.
- O Insert the end of the wire without the connector into the hole of the other wire's connector. Use a small flat screwdriver to tighten and secure this wire into the connector.













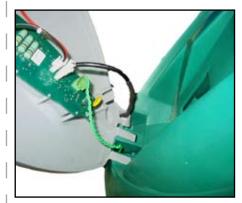
O Drive Wheel Supports to Base:

Align each Drive Wheel Supports with the Station base. Push the base down until it snaps into place.

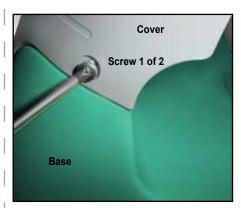
Flip them and drive the screw into the hole in each Drive Wheel Support. Tighten lightly with a Phillips screwdriver.











Base Station Cover and base:

- O Align the two tabs on the lower part of the cover with the matching openings in the lower section of the base front.
- O Push the cover's tabs carefully into the openings.
- O At the same time, attach connectors of Perimeter Wire and Power Extension Cord onto the Base Station Board.
- **Pivot the cover towards the base.** Verify that power supply cable extends through the notch in the base.

 Screw the top section of the cover, to each side of the Base Assembly. Use the two supplied screws.
 Tighten lightly with a Phillips screwdriver.

Carefully, spread the length of the power supply extension cord. Start at Base Station leading to the main power supply.

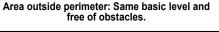
L2000 2.6 Placing Base Station

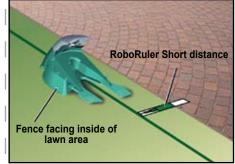
Only

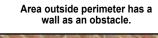
Use RoboRuler to measure and place Base Station on the Perimeter Wire.

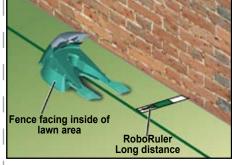
2.6.1 If base station is placed on the lawn – Internal Setup

- O Use RoboRuler to place the Base Station on the Perimeter.
 - If the area outside the perimeter is free of obstacles or if it is at the same relative height as the perimeter edge \sum use the shorter distance of RoboRuler (30 cm/12 in)
 - If the area outside the perimeter is walled (building, fence etc.) or if it is NOT at the same relative height as the perimeter edge $\overline{>}$ use the longer distance of RoboRuler (45 cm/18 in).
- O Position the Base Station by the lawn's edge, with its fence facing the lawn.









2.6.2 If Base Station is placed outside the lawn – External Setup

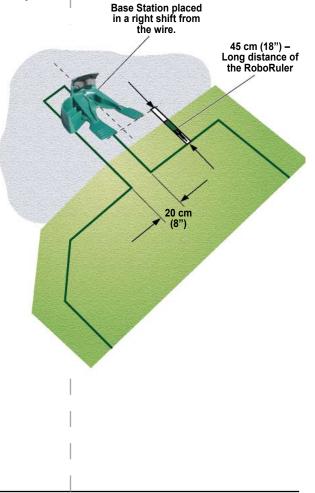
- O Place the Base Station, so that the distance between the Drive Wheel Supports and the Perimeter Wire inside the lawn is 45cm (18 inches). This is the longest dimension of RoboRuler.
- O Place the Base Station with a shift of 10-20 cm (4-8 inches) to the right.

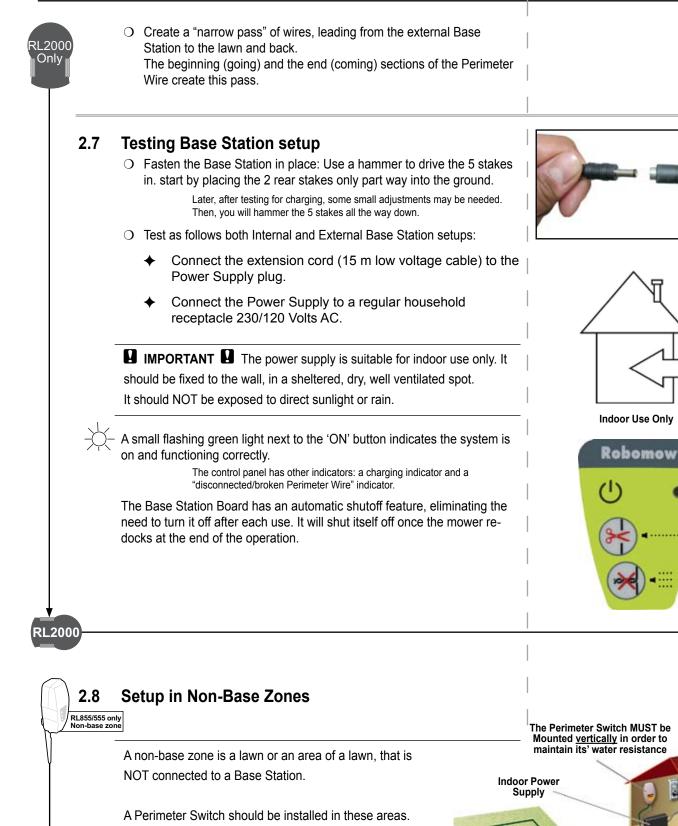
The two wires are very close. This has an effect on the wire sensors readings. Therefore, the Base Station should be shifted The exact shift will be later adjusted during the final testing of the setup.

O It is recommended to place the Base Station at least 30 cm (12 inches) before the end of the external pass.

> This allows the mower a smooth entrance to the Base Station.

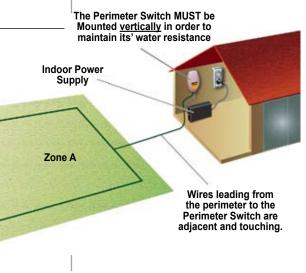
O Clear the pass of any obstacles. Verify that the pass is smooth, with no height differences, and its surface is firm.



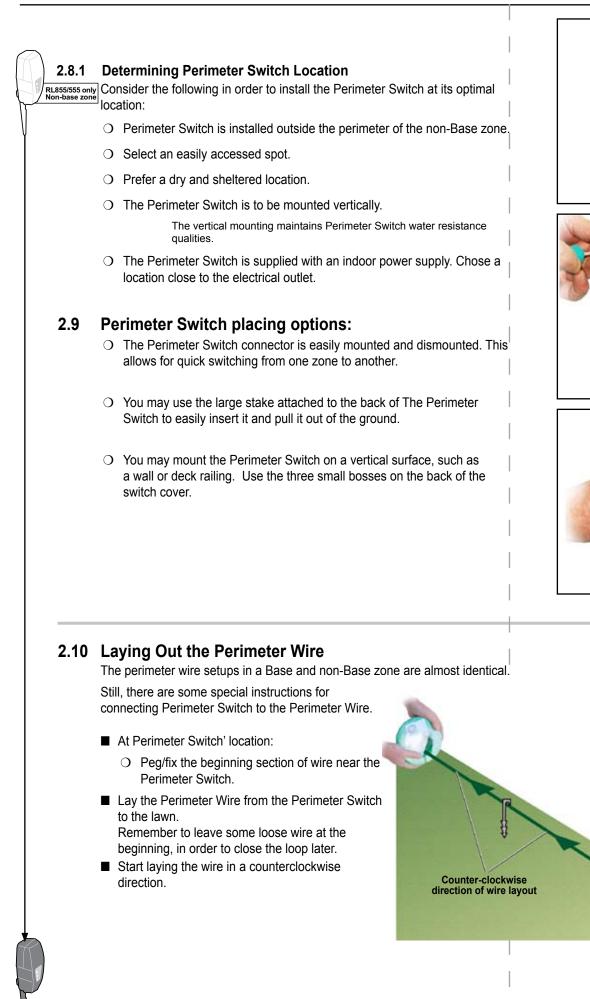


A Perimeter Switch is supplied with RL555/RL855 Robomows and is an optional accessory for RL2000.

When necessary, Perimeter Switch can be easily moved to other zones.



Plot Connector



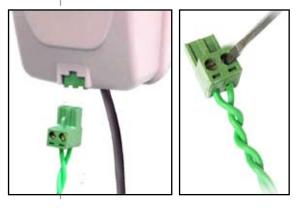
2.11 Completing and Testing the Setup

Once the Perimeter Wire loop is completed and pegged to the ground, you complete the setup by attaching the beginning and end of the Perimeter Wire to the Perimeter Switch.

 At the end of the Perimeter Wire's loop, you have now two wires: one at the beginning and one at the end of the loop. Lay the two loose wires in the direction of the Perimeter Switch location and peg them to the ground using a single peg for both.

2.12 At the Perimeter Switch's location:

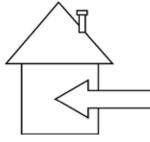
- O Trim the ends of the loose wire (the one without the connector) to equal lengths and twist them together.
- O Strip 5 mm (0.2 inches) of insulation from the wire that is not connected to the plot connector.
- O Insert this wire's end into the free hole in the connector and tighten the screws.
- O Plug the perimeter wire connector into the Perimeter Switch (see figure)



Completing Perimeter Wire at Perimeter Switch





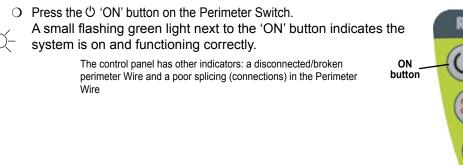


Indoor Use Only

O Hold the Perimeter Switch and squeeze its side tabs to remove it from the back cover.

- O Connect the power supply plug to the Perimeter Switch board. Replace the cover.
- O Connect the power supply to a regular household receptacle 230/120 Volts AC.

IMPORTANT The Power Supply is for indoor use only. Choose a sheltered, dry, well ventilated location that is NOT exposed to direct sunlight, water or rain.



Non Robomow Flashing light indicates the system is on Indicates a disconnected/ broken wire Indicates a problem in splicing or a perimeter wire that is too long.

The Perimeter Switch has an automatic shutoff feature. There is no need to turn it off after each use. The Perimeter Switch will shut itself off after 12 hours of operation. You may manually turn it off by pressing the 0 'ON' button and holding it for 3 seconds. Wait for a beep sound to indicate that the Perimeter Switch is off.

The Perimeter Switch can be operated by a rechargeable battery (available as an accessory).

Chapter 3 Preparing Robomow

Before using Robomow for the first time, you have to perform some simple preliminary settings. Once preparations are completed, your Robomow is set and ready to mow your lawn.

3.1 Inserting Power Pack Fuse

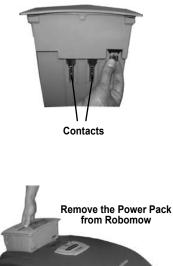
Your Robomow is shipped with the Power Pack fuse removed. The fuse is packed in a plastic bag attached to the top of the Power Pack.

- O Remove the fuse from the small plastic bag attached to the top of the Power Pack.
- O Remove the Power Pack from Robomow.
- O Insert the fuse into the fuse holder. The fuse can be inserted in either direction.
- O Carefully lower the Power Pack back into the Robomow

The Robomow now will power up (wake up). The Power Pack is charged at the factory and has plenty of power to perform the initial setup and test run.

D Important **D** After the initial set-up process is completed the Power Pack needs to be charged for a full 20 hours before the first operation.

See Chapter 6, Charging



Insert the Power Pack fuse into the fuse holder. The fuse can

be inserted in either direction



3.2 Setting Country and first-time calibration

Robomow uses a sophisticated navigation system. An onboard compass-like device responds to earth' magnetic poles. In order to adjust to the variance in the magnetic North, it is necessary to calibrate Robomow to your geographic location.

This is a one-time procedure. It needs not be repeated unless the mower is moved several hundred kilometers away.

The calibration process is simple. Robomow will ask for it before the first time it is used in the automatic mode. It will lead you through the process.

O Remove the Manual Controller from its holder and grasp it with both hands.

To remove Manual Controller: push it up with your finger inserted in the indentation to its left.

As a safety feature, Robomow operates manually **only** when the Manual Controller is removed from its holder.

Then, in order to return to Automatic mode, the Manual Controller has to be returned to its holder and adjusted until it is at level with top of Robomow.

- O Use the Navigation Button I on Manual Controller to drive Robomow to an inner flat and smooth area of the lawn.
 - Press the navigation button's arrows in order to drive to the desired direction.

Important I Forward and reverse directions correspond to your position when standing behind Robomow.





- O **If the grass is extremely high**, adjust the height and ground clearance of Robomow to their highest position.
- O Reinsert Manual Controller in its holder.

Adjust the controller and its coil until it is at level with top of Robomow.

- O In Base zone confirm the Base Station is connected to the power. In Non Base zone, press the ひ ON button on the Perimeter Switch to activate the Perimeter Wire.
- O Press Robomow's GO button and go through the following steps:
- O If during the calibration process, a message is displayed when pressing the GO button, refer to the troubleshooting table of this manual (Chapter 10).

Such messages may be: "Check Signal", "Start Inside" or "No Wire signal"

Robomow will circle slowly throughout the calibration process.

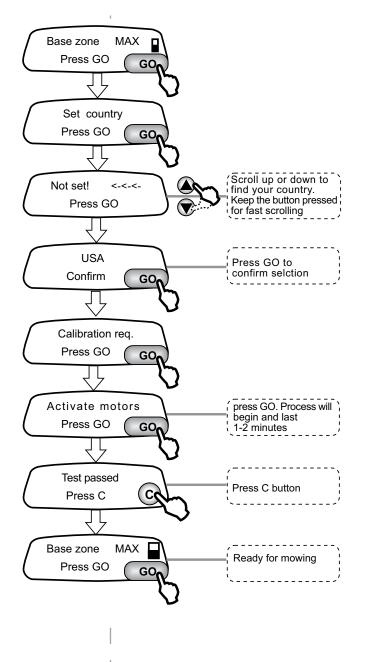
Be patient until calibration is complete, it usually takes a few minutes.

For the duration of the process the display panel flashes a "wait" message.

Rarely, the first attempt to calibrate may fail. In such rare cases a "**retry elsewhere**" message is displayed. This usually is a result of interference such as nearby metal objects or even underground wires.

 If a "retry elsewhere" message is displayed, move Robomow to another flat spot, at least 3 meters (10 feet) away and recalibrate.

Once the process is successful, no further interference can effect Robomow's calibration.



3.3 Setting The Cutting Height And Ground Clearance



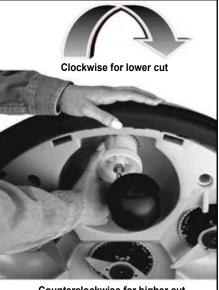
Caution! Always remove the Power Pack before lifting mower off the ground or making any adjustments.

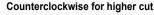
3.3.1 Setting cutting height

Low cut blades: 26 - 63 mm (1 - 2.5 inches)Low cut using small wheels (not available in US): 20 - 57 mm (0.75 - 2.25 inch)

High cut blades (US customers): 38 – 89 mm (1.5 – 3.5 inch)

 Turn the front wheel hub clockwise (for lower cut) or counterclockwise (for higher cut).
 Each click represents 6 mm (1/4 inch) of cutting height.
 This raises or lowers the front wheel.







Warning

Severe injury hazard!

Never lift the mower or attempt to adjust the cutting height during operation. Blades are very sharp. They can cause severe cuts or lacerations.

When working around or near the blades always wear heavy gloves.

Rear ground height adjustment is located in the Power Pack compartment.

3.3.2 Setting rear ground clearance

- O Pull the height adjustment tab located in the Power Pack compartment.
- O Slide the tab to its upper position for low ground clearance. Slide the tab down for high level of ground clearance.
- O **If** your Robomow has small wheels (not available in the US) the tab has an additional lower position.

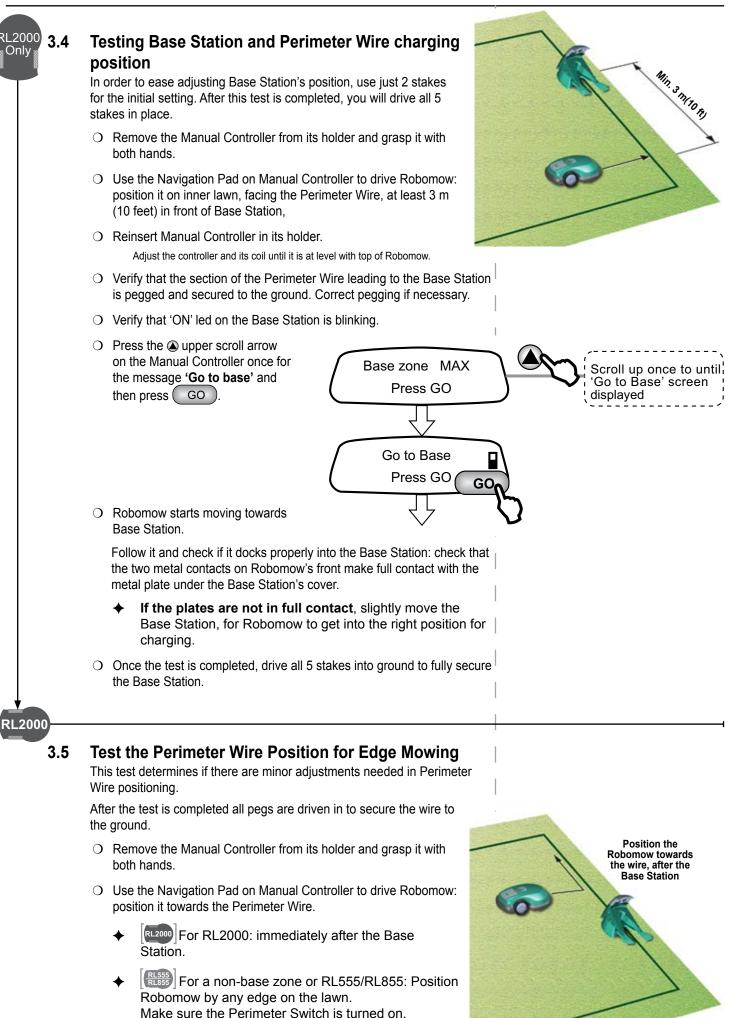
It is recommended to set for maximum clearance – tab near base of Power Pack compartment.

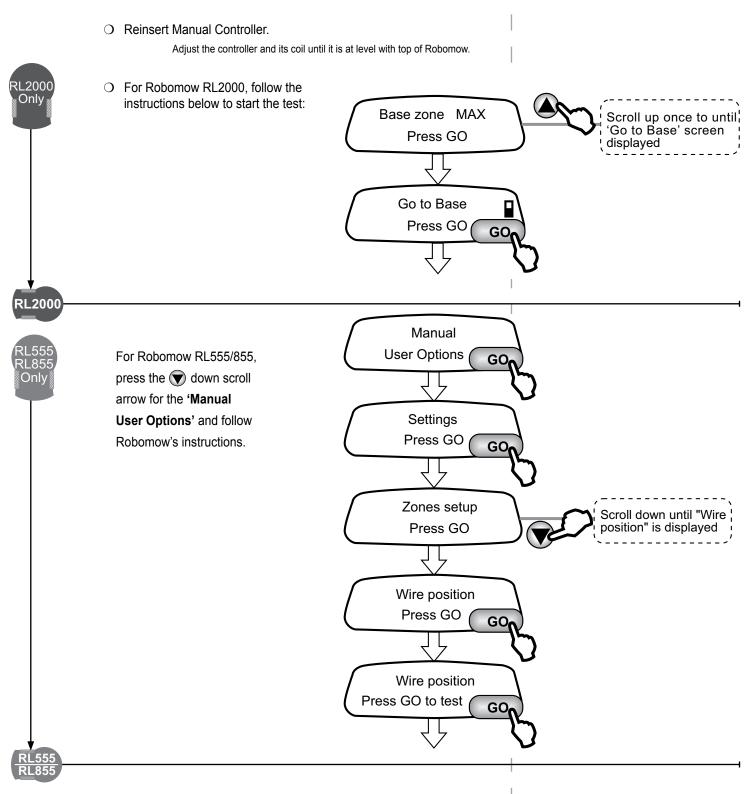
For European lawns and for lawns where grass is cut extremely low, less than 5 cm (2 inches): Setting to minimum level may work best.



To adjust ground clearance, pull out on tab as shown and slide tab up or down.







- O Walk along the side of Robomow while it is following the edge.
- O If, at any point the mower is too close to outer object (e.g. walls, fences), or the bumper hits such objects, move the wire slightly towards the interior, away from the obstacle.
- O Retest, until you are satisfied with the Perimeter Wire's layout.
- O Once complete, add pegs to all wire's sections that are above the level of grass tips or removed from ground level.
- D This is the time to inspect the whole wire installation for tripping hazard. Any raised or loose section of the wire should be tightened and pegged down with extra wire pegs.

If needed, purchase extra pegs.

Chapter 4 The mowing process – automatic and manual operation

4.1 For added safety:

- O Manual operation is disabled when the Manual Controller is in the holder.
 - For manual operation: Remove Manual Controller from its holder.
- O Automatic operation is disabled when the Manual Controller removed from the holder.
 - For automatic operation reinsert Manual Controller in its holder.

Adjust the controller and its coil until it is at level with top of Robomow.

4.2 Driving Robomow – general instructions

Parts of the mowing process require driving Robomow to various locations in or out of the lawn.

- O Remove Manual Controller from its holder.
- Hold the Manual Controller with both hands, with the button side closer to you.
- O To maneuver Robomow, press the navigator pad in the direction you wish Robomow to move.

Driving Robomow with the navigator pad takes very little pressure. Press gently. Lightly roll your finger in the right direction. The pad is omni-directional. It allows for slight turns as well as sharp turns,

all the way to a complete circle.

- To change speed: press the Speed Button **b** to toggle between **f** ast and slow **m** movement.
- O To stop driving: just release the Navigator Pad.

4.3 Depart

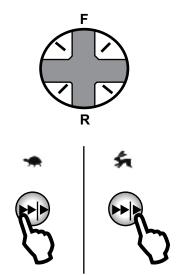
L2000

Only

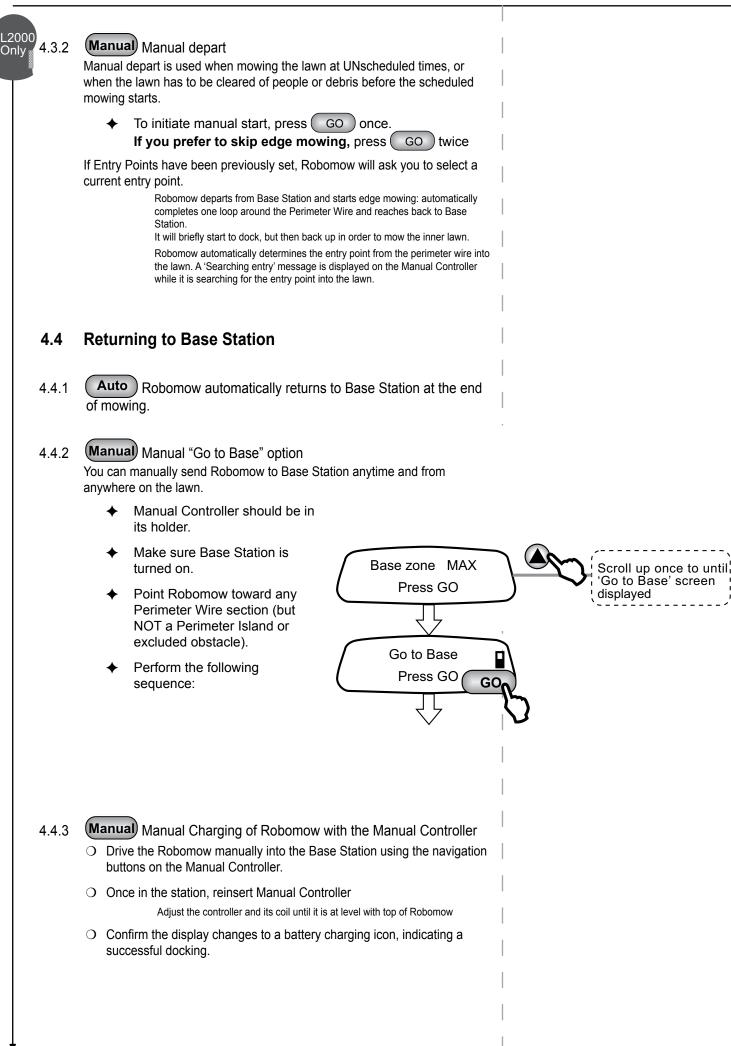
"Depart" is the starting step of the mowing sequence. At Depart the Perimeter Switch on the Base Station control panel is automatically switched on by Robomow.

4.3.1 **Auto** once you set a Weekly Program, (see Chapter 5), Robomow will automatically depart to start mowing your lawn at days and times you have scheduled.









4.5 Activating the Perimeter Switch

RL855/555 only Non-base zone (Non base-station zone)

Important! Mowing in non-Base Station zone requires a prior setting of each such zones.

If the zone to be mowed is not defined yet, do the setting now .

In order for Robomow to operate in a non base-station zone: the Perimeter Switch has to be turned on and the mower should be inside the active perimeter area.

- O Verify that a Perimeter Switch is connected to the zone to be mowed.
- O Press the ${}^{(\!\!\!\!\!)}$ 'ON' button to turn on the Perimeter Switch.

A short beep sounds when the Perimeter Switch is turned on.



A green LED flashes to indicate proper operational state.

 If one of the red LED indicators flashes, there may be some malfunction.

For more details, please refer to the troubleshooting guide (Chapter 8).

 A "No Wire Signal" message on the Robomow's Display is an indication that Perimeter Switch is not turned on.
 Verify that you have properly connected the Switch to the Perimeter Wire, using the small green connector.

4.6 Positioning Robomow on the lawn.



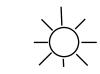
Serious injury or death hazard!

This machine has sharp rotating blades. When operating in automatic mode, keep children, pets and bystanders away from mower. Do not leave mower unattended while operating.

Never allow people or pets to ride on mower or block its path of movement.

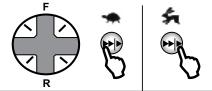
- O Drive Robomow into the lawn area.
 - Remove the Manual Controller from its holder.
 - ♦ Use the Navigator Button to drive Robomow.
 - Use the speed button to toggle between fast and slow
 speeds.
- O Position Robomow at least 1 m (3 ft) from the Perimeter Wire.









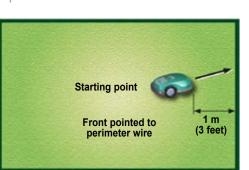


RL855/555 only Non-base zone

4.7 Edge Mowing (Non-Base Station Zone)

Robomow starts the mowing process by mowing the edges: along the Perimeter Wire. This creates a clean even cut around the perimeter. Edge mowing minimizes trimming along walls and other obstacles. Robomow will always mow the edge in a counter-clockwise direction. It will automatically find the edge (perimeter), mow it and then turn into the inner lawn area to complete the mowing.

- Verify that the zone to be mowed is already defined in Robomow. If the zone is not set yet, do it now (see section 7.4, Work Time).
- Reinsert Manual Controller in its holder.
 Adjust the controller and its coil until it is at level with top of Robomow.
- Scroll down (using the DOWN arrow) to select the zone to be mowed and then press the GO once for Edge mowing.





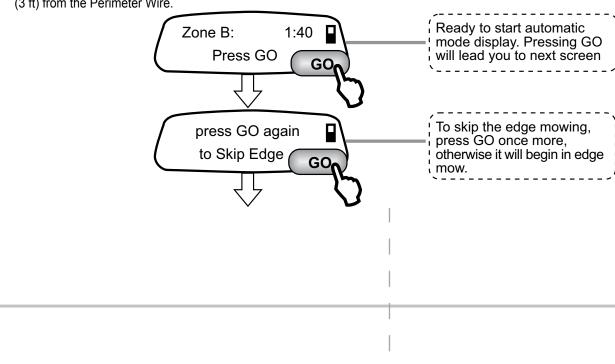
4.8 Scanning (mowing)

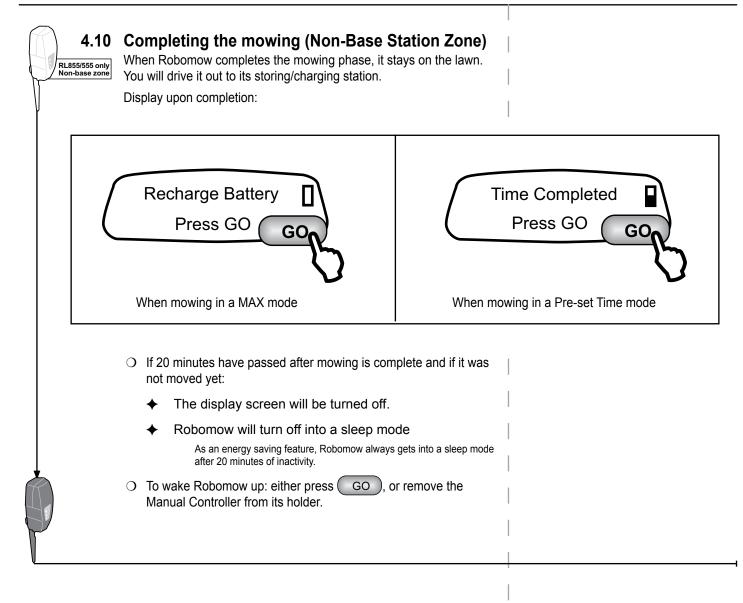
Robomow mows your lawn in a systematic scanning motion until all grass is cut. It runs for the default "MAX" time, or for the amount of time previously set (See chapter 6, operator settings and advanced features). "MAX" is typically 2-3 hours of mowing, according to grass type and condition.

4.9 To skip Edge Mowing

If your lawn requires more than two operations per week, it is recommended to skip edge mowing at the additional operations.

 Move Robomow to any point within the lawn which is at least 1 m (3 ft) from the Perimeter Wire.





4.11 Manual Mowing

Manual You can activate the blades manually in order for Robomow to trim small areas.

For added safety, in order to activate manual mowing you have to press 2 buttons simultaneously.

This is a two-step OPC (Operator Presence Control) type system for your safety.

- O Use your right thumb to press and hold the C button (Step 1)
- While holding the c button. Press the "MOW" button with your left thumb. (Step 2).
- O The blades start operating.
- O Release the C button.

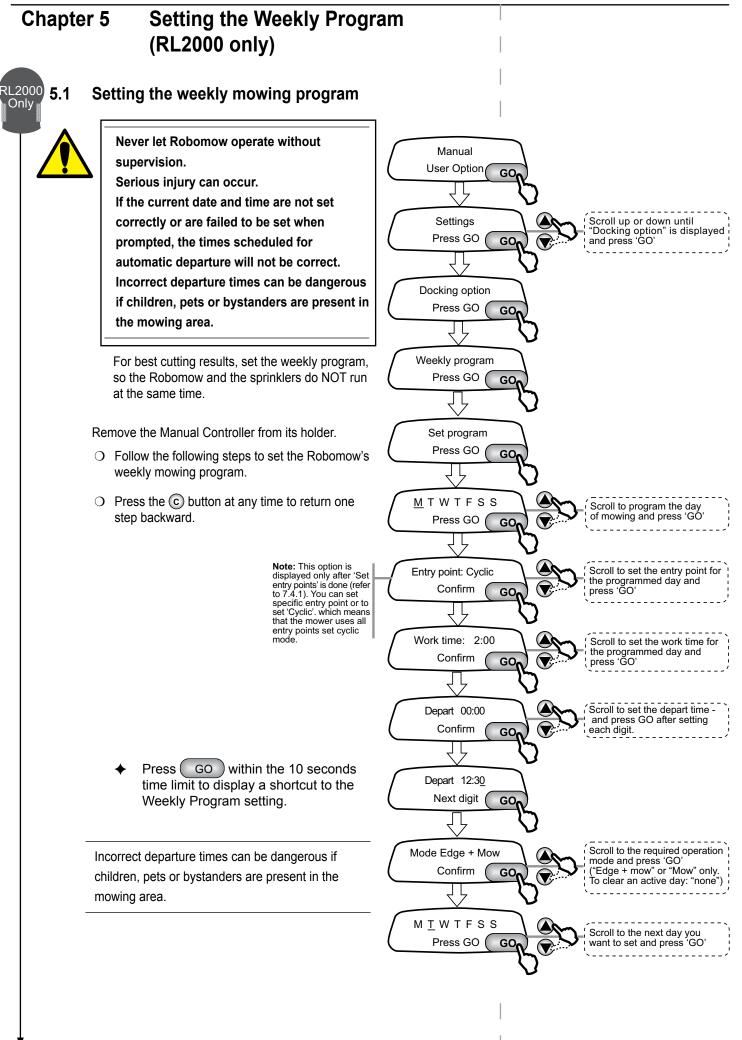
Keep pressing the MOW () button. (Step 3)

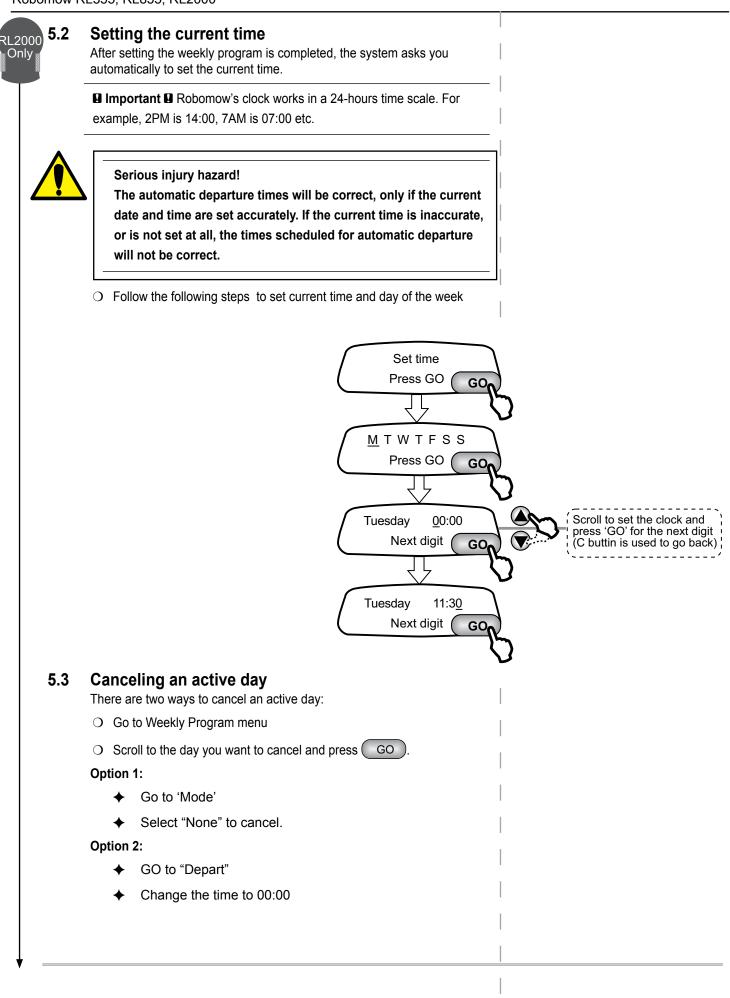
- $O\$ Use the navigator pad to drive the mower.
- $\rm O~$ To stop driving: release Navigator Pad.
- O Any activation of a bumper sensor, will automatically shut down the blades.
- O To stop mowing: release the MOW button.
- O To renew manual mowing: repeat steps 1-3 above.

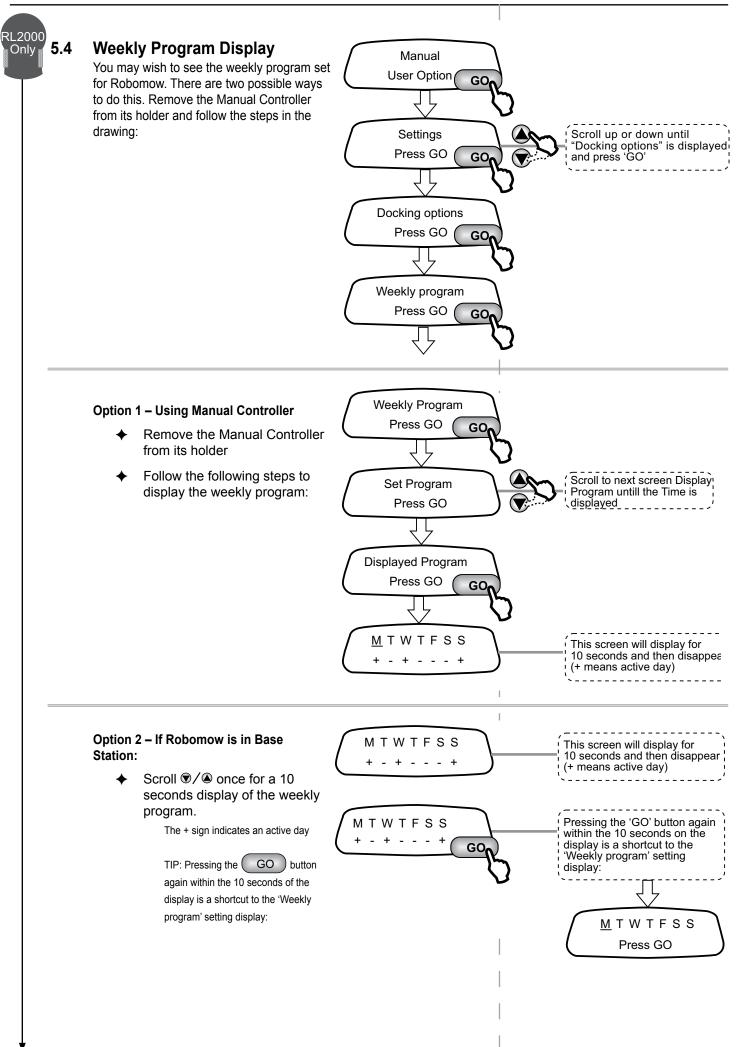












RL2000 5.4.1

.1 Special messages on Weekly Program display

The weekly program display provides important information about the last 7 days of Robomow's operation. Special characters under specific days provide this information.

Use the following table to interpret the information shown in this window:

Character shown	Meaning
+	Active day
В	Skipped due to low battery voltage Robomow did not depart from Base Station at the scheduled time due to low battery voltage.
b	If "working Time" has been set: Docked before time due to low battery voltage Robomow did not complete the operation. It drove back to Base Station due to low battery voltage.
D	Skipped due to no contact with Base Station or due to no charging voltage. Power break or mower placed out of the Base Station at the scheduled depart time.
U	Skipped due to user choice. For example, user chose the 'skip next depart' option or set the 'Auto depart' to 'off'.
с	Skipped due to no charging at the scheduled depart time, even though there was voltage. Typically, when Robomow is in Base Station, but the Manual Controller is not in its holder.
R	Skipped due to rain Robomow did not depart from the Docking Station at the scheduled time as it detected rain.
r	Docked before time due to rain Robomow did not complete its operation. It drove back to the Base Station as it detected rain while operating.

RL2000

Chapter 6 Charging

Proper charging of the Power Pack is of utmost importance!

Failure to follow the charging guidelines will result in poor performance and a short Power Pack life.



Only

RL2000

Shock, injury, electrocution hazard! Robomow Power Supply is designed for use in dry indoor locations only. Never use the Power Supply or charge the Robomow in areas

where extreme dampness or wet contact is likely.

Never use a Power Supply when the leads are damaged.

Use only the recommended Power Supply for your Robomow.

Important
 The power supply is suitable for INDOOR use only. It is required to place the power supply in a sheltered, dry location. It should be well ventilated and NOT exposed to any direct sunlight or to rain. Do NOT pack the Power Supply inside a plastic bag, as it will over-heat.

Rezooo Robomow will be automatically recharged at its Base Station at the end of all mowing sessions. It is best for the Power Pack to remain plugged in at all times of non-use, throughout the mowing season. There is absolutely NO need for concern: no over-charging, no over-heating and no damaging the Power Pack.

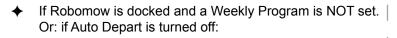
After completion of all daily cutting sessions it is very important to bring Robomow to its storage area and plug it into the charger. This should be done as soon as possible, preferably within 6 hours from the time it stopped.

Charging time is approximately 20 hours, depending on conditions.

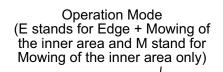
RL2000 6.1 Charging at the Base Station

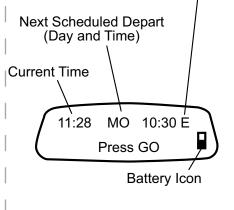
The Base Station is the primary Charging Station when Robomow is docking

- O When the Power Pack is being charged at the Base Station one of the following screens is displayed:
 - ✤ If Robomow is docked and a Weekly Program is set:

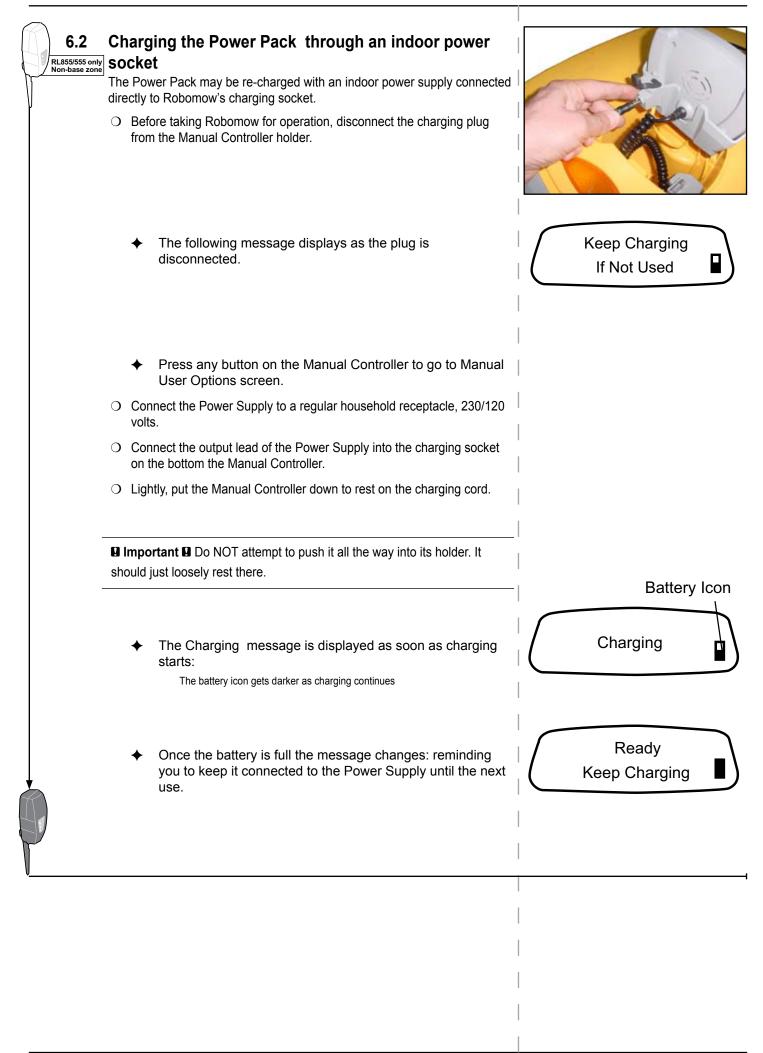


Indoor Use Only



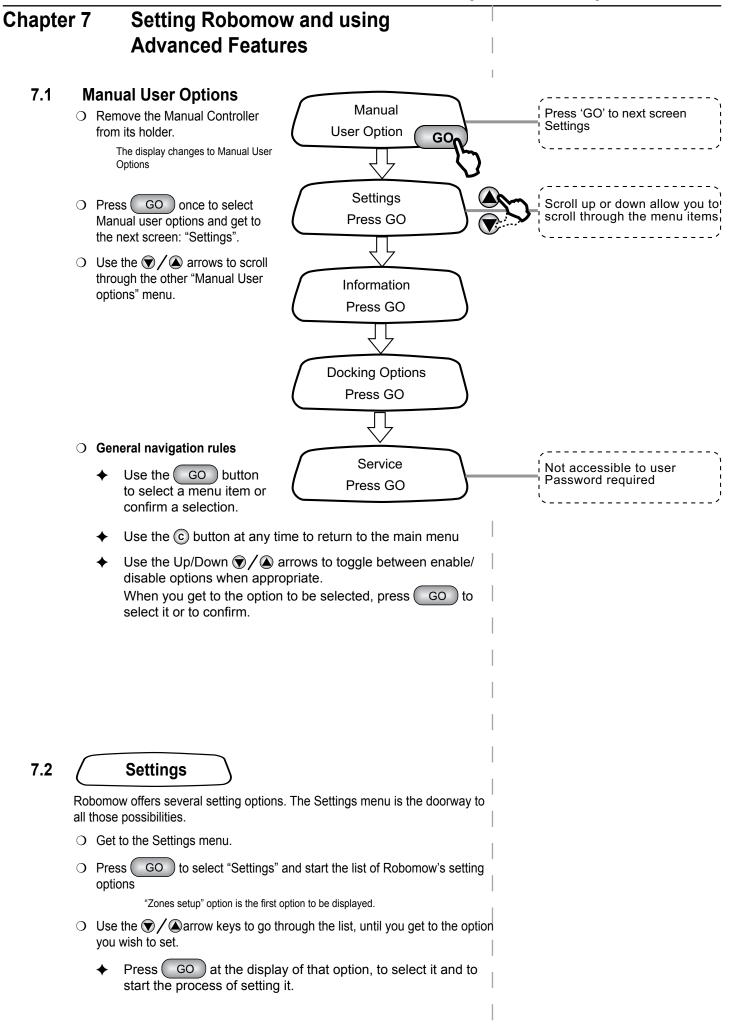


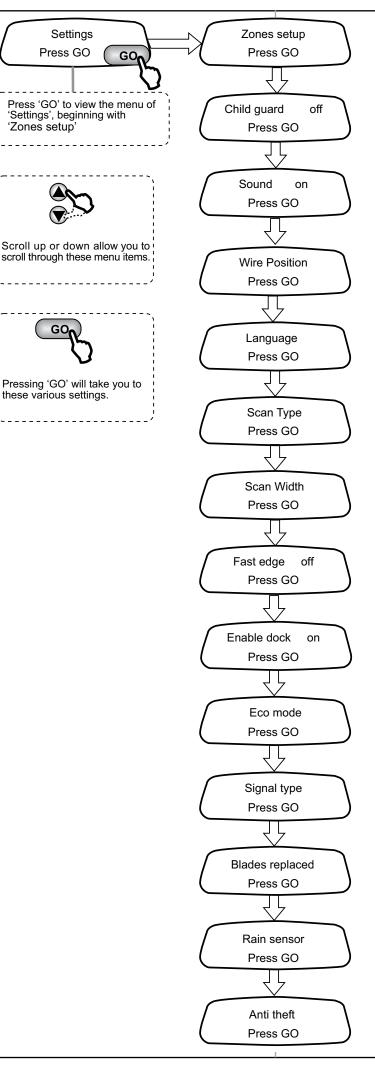


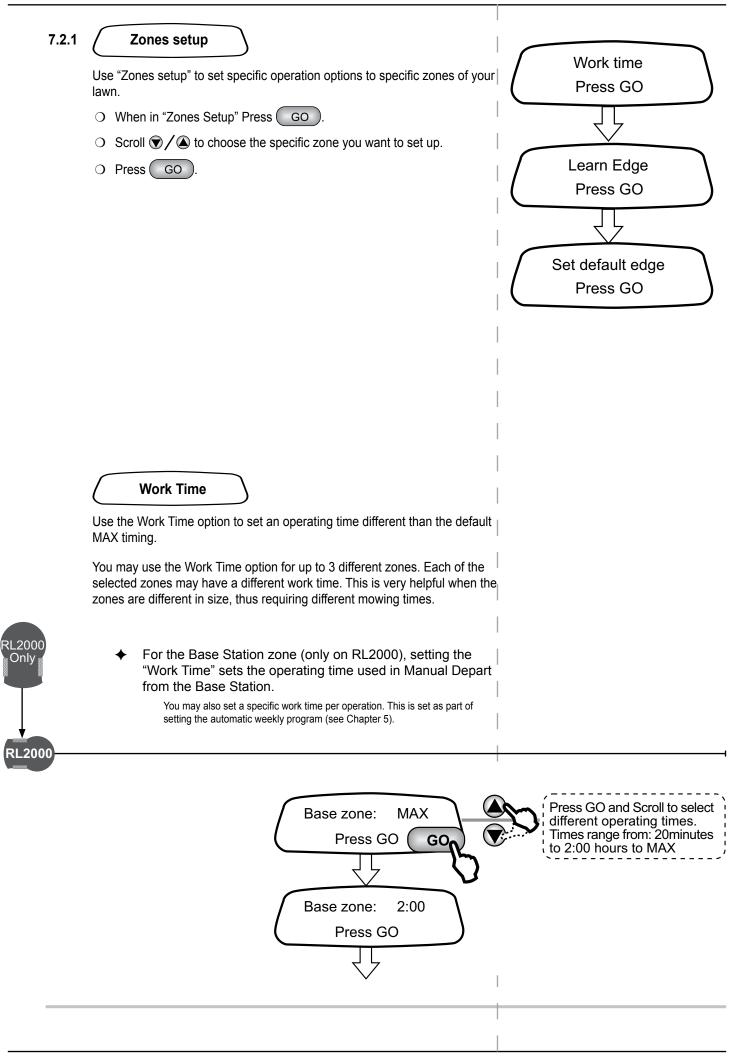


6.3 **Power Management and Charging Alerts** 6.3.1 The Power Pack should be fully charged before starting any operation. O Verify that the Power Pack is fully charged before operating it. O Check for any excessive energy consumers like: dull blades, or heavy grass accumulation around the blades. To even increase energy efficiency 6.3.2 Robomow operates under two run-time modes Robomow's Power Management System helps protecting its battery. O Robomow should always be either charging or in operation. If Robomow is neither charging nor operating, it will give a warning, reminding the user to charge it. If Robomow is not connected to the charging outlet within a specific period of time, it will enter a "deep sleep" mode in order to conserve power. In order to wake Robomow up from its deep sleep mode: remove the Power Pack for 10 seconds and then reinsert it. 6.4 Off-season storage Preparing Robomow for off-season storage: O Fully charge the Power Pack. O Remove Power Pack from Robomow and store it in a dry location at room temperature. The Power Pack may be left in a garage or a shed if the temperature there will not drop below -20 °C (-4°F). O Recharge the Power Pack every three months while in storage.

D Important **D** For further details of winter storage, please refer to section 10.9.









L555

Learn Edge

For NON-Base Station zones only:

Use the "Learn Edge" option to set ("teach") a distance for edge mowing that is different from Robomow's default (1.5 to 2 rounds around the Perimeter Wire). For example, you may wish it to learn to do it at a distance of one full round.

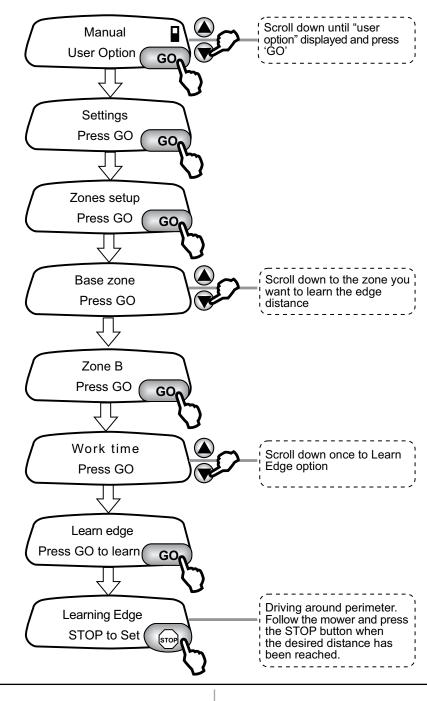
This newly learnt distance will remain until edge mowing is learnt again or until you set it back to Robomow's default.

- Position Robomow to start edge mowing.
- Reinsert Manual Controller to its holder.

Adjust the controller and its coil until it is at level with top of Robomow.

- Follow the steps described here to start the "Learn Edge" process.
- ◆ Robomow drives around the Perimeter Wire. Follow it and

press the button when the desired distance has been reached.



RL555 RL855 Only	Set Default Edge Use the Default Edge function to re-set edge mowing of a specific zone back to Robomow's defaults.	
RL855		·
7.2.2	Child Guard "Child Guard" is a safety feature that prevents young children or other unauthorized people from activating Robomow.	
	When Child Guard is set, Robomow will start operation ONLY after unlocking it.	
	IMPORTANT It is strongly recommended to turn this feature on. This will prevent children or anyone unfamiliar with the mower, form activating it.	
	O To unlock Robomow's Child Guard:	
	 Press the arrow and then press the c key 	
7.2.3	Sound	
	Use the Sound option to turn all non-safety sounds off. This option still KEEPS all safety sounds on.	
7.2.4	Wire position Use the Wire Position option to test the Perimeter Wire's position at "Edge"	
	mode, and wish to do that with the mowing motors switched off. This prevents damage to the Perimeter Wire after its initial setup has been completed.	
7.2.5	Language Use the Language option to view the display in other languages.	
7.2.6	Scan Type	
	Use the Scan Type option when you wish the mower to move in a random, irregular pattern. This type of mowing movement will replace Robomow's default Compass directed movement. In Random movement Robomow movement pattern is irregular so it opens a different angle whenever reaching the perimeter wire or an obstacle.	
	IMPORTANT It is recommended to change the settings to	
	'Random' only if local interferences to the compass cause Robomow to	
	drive back in the same direction with no progress.	

7.2.7	Scan Width Use the Scan Width option to change the mowing movement of Robomow. This can be beneficial in some lawns. O If the mower is continuously moving back and forth along the same path, it is recommended to increase scan width.	
RL2000 Only 7.2.8	Fast Edge Use the Fast Edge option to change the speed at which Robomow tracks the Perimeter Wire. (This option is available only for RL2000s base zone). This option is suitable if the perimeter is long and straight. If the Perimeter is curved or wavy, the "Fast Edge" option is NOT recommended.	
7.2.9 RL2000	Enable Dock Use the Enable Dock to switch ON the docking options menu of the Base Station. If Enable Dock is turned off, the docking options menus are hidden.	

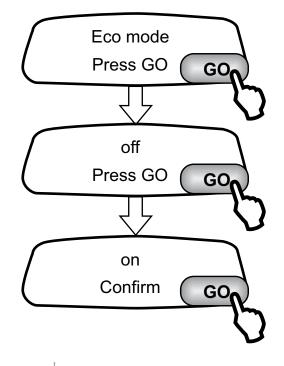
7.2.10

Eco mode

Use ECO (Economic) option to operate Robomow with the minimum energy needed for cutting the grass and maintaining the lawn.

As a default, the ECO mode is set 'off'. Operation in ECO mode reduces Robomow noise level during operation and allows longer operation periods.

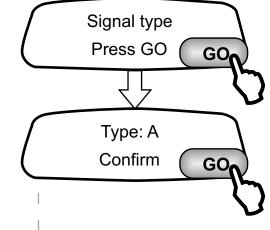
It is recommended to use the ECO mode only in Base Station zones where mowing is more frequent and a shorter part of the grass is cut. If Robomow detects high grass, it will automatically increase the power of the mowing motor to enable cutting higher grass.





Signal Type

Use the "Signal Type" to change the frequency of the Perimeter Wires signal from type A (default) to type B.



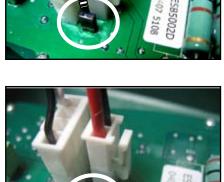
O In order to switch to type B signal, remove the signal jumper from Base Station/Perimeter Wires board (see picture).

IMPORTANT Keep the signal jumper in a safe place, in case you need to reinsert it in the future.

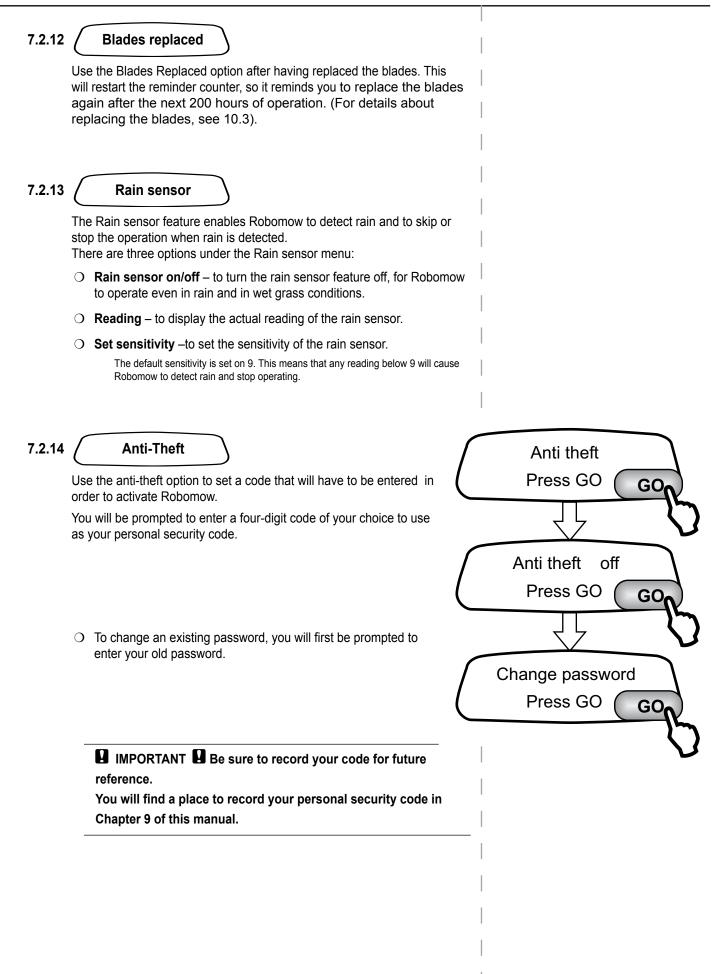
O In order to return to the default type A signal, insert the signal jumper to Base Station/Perimeter Wires board.

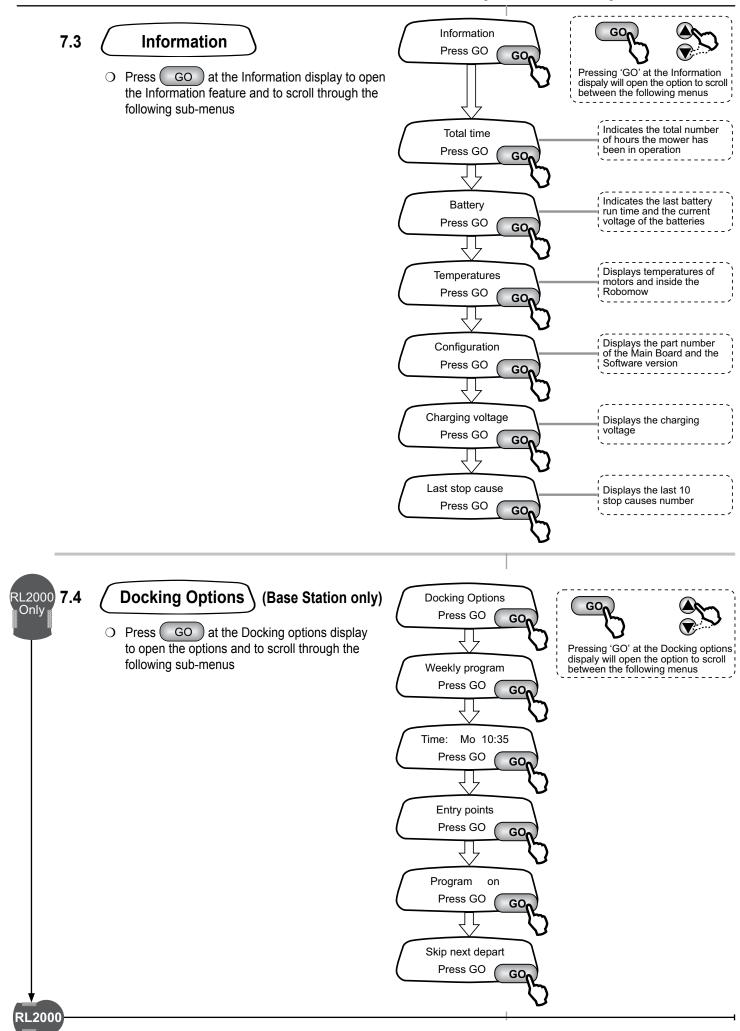
Changing the signal type is usually a result of interference to the Perimeter Wire signal. It may be caused by a signal from another wire in an adjacent lawn (neighbor uses a robotic mower), or by any other electrical appliance using the same frequency.

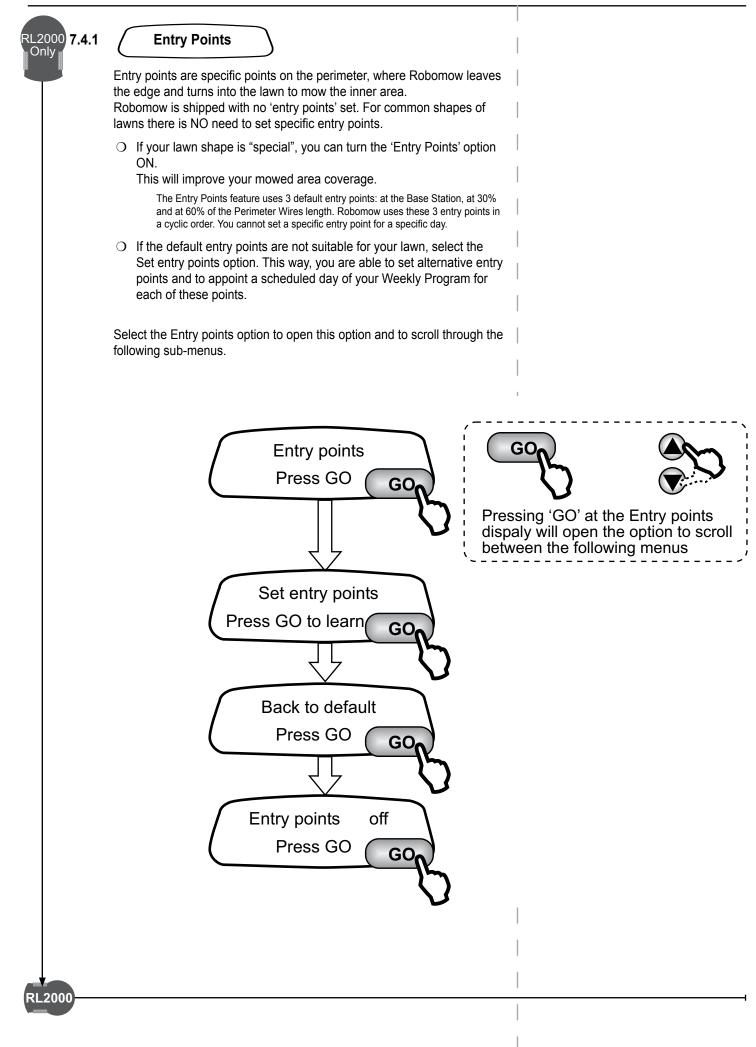
- O Possible symptoms of interference:
 - If mower is widely swinging when driving along the wire.
 - If mower changes direction without reaching the wire.
 - If mower crosses the Perimeter Wire outside of the designated area.
 - If 'Start inside' message is displayed even when Robomow is inside the designated area and the Perimeter Wire is connected in the right polarity

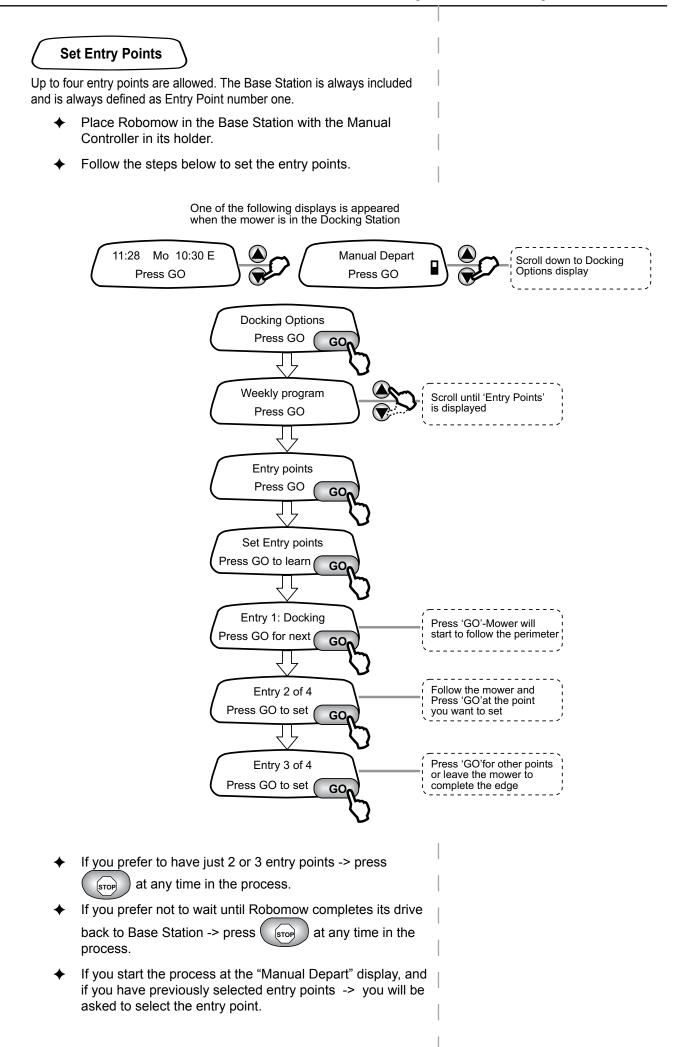


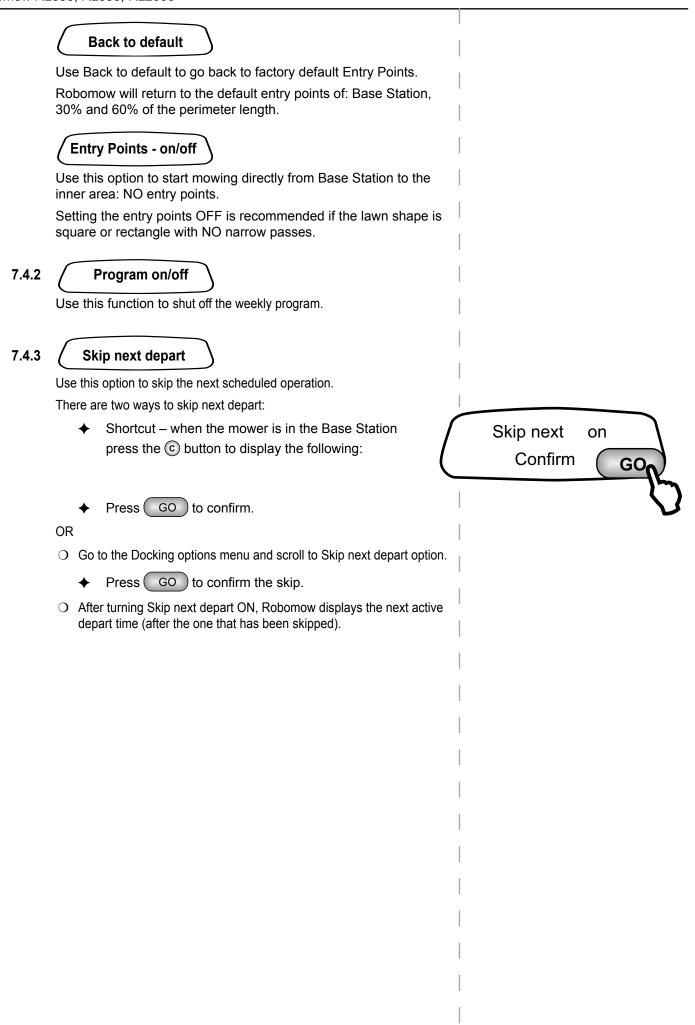












Chapter 8 Troubleshooting

8.1 Text error-messages

Robomow continuously monitors its operation. It produces text messages to assist you in smoothly running it: text messages in case of an operational fault as well as text messages that prompt the user to perform a certain action.

- O Usually, if the mower stops, a message is displayed. This display stays on for 15 minutes.
- O If you arrive later than those 15 minutes, the display will be blank.
- O To wake Robomow up and see the last text message displayed prior to stopping, either press GO or lift the Manual Controller from its holder.
- O The fault code is also displayed in the "Information" menu, under "Last stop code". This information may be required if you have to call service for help.
 - ✦ Shortcut: To wake-up the mower and see the "Last stop cause", press the UP ▲ arrow once, when the stop message is displayed.
- O If a problem re-occurs, it is recommended to write down the fault code before calling for service.

The following table displays all fault message displays and their most common causes. The next table will give details and possible causes of other faults, that do not provide fault messages.

If a fault cannot be dealt with using these tables, please call your service provider.

8.2 Messaging

Message Displayed	Probable Cause/Event	Corrective/User Action
В	 Bumper pressed during warm up. Bumper pressed for >2 sec during manual mowing. 	- Move mower away from obstacle pressing on bumper.
Blocked path	- Bumper pressed while departing from the Base Station	- Manually drive mower away from obstacle.
C Calibration Re- quirement	- Displayed on first use only	- Follow prompts on LCD to calibrate mower
Charging Failure	- The charging process is not active	- Contact service provider
Check Mow Height	 Mowing motors have faced over-current for too long or some obstacle is stuck or wrapped around the blades. Something is preventing a blade from rotating freely. Severe grass accumulation under the mowing deck; rope or similar object wrapped around mowing blade. Object jammed under mower preventing blade from rotating. 	 <u>CAUTION</u> – Remove power pack before lifting the mower. Inspect blades for foreign material or debris preventing rotation. Clean out accumulated grass clippings using a wooden stick.
Check P. Switch	 Mower is trying to depart from Base Station and the perimeter switch is not responding There is a perimeter wire disconnection detected at departure time 	- Turn on the perimeter switch and check for broken wire warning.

Message Displayed	Probable Cause/Event	Corrective/User Action
	 Power supply/charger is not plugged properly into the main power supply Charging plug is not fully inserted into the charging socket of the mower The charging process has stopped due to a temporary power loss. 	Disconnect the charging plug from the mower, confirm power supply is plugged into the main power receptacle and re- connect the plug to the mower to resume charging.
	 No power to receptacle or main power is shut off 	- Turn power on to the main receptacle.
Check Power	- The mower contacts do not touch the Base Station contacts	- Make sure that both mower drive wheels are leveled with the Base Station base (if necessary fill the area underneath the drive wheels with dirt)
	- The mower or Base Station contacts are dirty	- Clean the contacts with a brush or piece of cloth
	 Charging is not detected, although there is physical contact between the mower and the Base Station contacts (mower is found in the Base Station entrance). 	 Confirm a good connection of the cables to the Base Station contacts. Check the Charging fuse 5A (remove the plastic cover below the Manual Controller).
	 Mower does not reach the Base Station within the time and distance limitations. 	 Confirm the mower is operated in a Charging zone. Confirm the mower is not slipping or stuck on its way to the Base Station.
Check signal Press Go	 There is no fitting between the 'Signal type' setting in the menu and the signal jumper on the Perimeter Switch; Automatic operation is initiated while Robomow is placed out of the perimeter wire lope. The perimeter wire is connected to the plot connector in the wrong polarity. Robomow detects signal interferences from adjacent activated lawn or from other appliance activated near the zone; 	 Set the 'Signal type' menu to 'A' and confirm the signal jumper is installed on the Perimeter Switch board; or alternatively set it to 'B' and remove the signal jumper from the board; Place the mower inside the lawn and press the 'GO' button. Change between the two wires ends that connected to the plot connector (the green connector that connected to the Base Station). In case of signal interference call the service for help;
D	- The mower contacts do not touch the Docking Station contacts	- Make sure that both mower drive wheels are leveled with the Docking Station base (if necessary fill the area underneath the drive wheels with dirt)
	 The mower or Docking Station contacts are dirty 	- Clean the contacts with a brush or piece of cloth
Docking problem	 Charging is not detected, although there is physical contact between the mower and the Docking Station contacts (mower is found in the Docking Station entrance). 	 Turn on the Perimeter Switch Confirm a good connection of the cables to the Docking Station contacts. Check the Charging fuse 5A (remove the plastic cover below the Manual Controller).
	 Mower does not reach the Docking Station within the time and distance limitations. 	 Confirm the mower is operated in a docking zone. Confirm the mower is not slipping or stuck on its way to the Docking Station.
Drive Overload Cooling Wait	 The drive motors have been working under a severe load for too long. 	 There is no need to do anything – Robomow will renew automatically the operation, as the drive motor will cool down.
Drive problem	- Internal failure	- Contact service provider
E	- The theft guard system is activated	 Enter the correct 4-digit code. 'Theft Guard' can be deactivated under 'User Preferences'. Contact your convice provider for accientance in a last code situation
Enter Code		service provider for assistance in a lost code situation.

Message Displayed	Probable Cause/Event	Corrective/User Action
Front/Rear bum-	- Internal bumper failure	- Contact service provider
per disc. Front/Rear bum- per pressed	- Front or Rear Bumper is constantly being pressed	- Move mower away from object pressing against bumper.
		 CAUTION – Remove power pack before lifting the mower The Robomow has driven onto an obstacle, raising the front end. Remove or exclude this object from the
Front Wheel Prob- lem	 The Front Wheel has left the ground for more than 8 – 10 seconds. 	 The Robomow is being used on a slope too steep for safe mowing. Exclude this from the mowing area.
		- High grass is preventing the front wheel from fully riding on the ground. Raise the cutting height.
		- The ground contains large holes or indentions where the front wheel can drop into when passing across. Fill these areas with dirt and level off.
H High temp. Disc. charger	 Robomow is charged through the plug and ambience temperature is out of range (above 158°F / 70°C) 	 Robomow charging is not allowed when the ambience temperature is raised above 158°F / 70°C; Disconnect the charger plug and wait until the temperature will go down or take the Robomow to be charged in a cooler place.
High temp. Waiting	 Robomow is charged through the Base Station and the ambience temperature is out of range (above 158°F / 70°C); 	- Do not do anything, the charging is stopped and Robomow is waiting for temperature to change back to the allowed range; if temperature stays out of the range for more than 12 hours, the message is changed to 'High temp. Press GO.
K Keep charging if not used	 Message is displayed every time the charger plug is disconnected from the mower. Displayed when the mower isn't in operation and not connected to the charger/Charging for a long time. 	 Press any key to change the display back. Send the mower back to the Base Station for charging / connect the charging plug or continue in operation
Keys locked	- Child lock feature has been activated	 Press the Up arrow key and then press the 'C' button. Child lock can be deactivated under User preferences.
L Low battery	 Mower is searching for the Base Station but the battery voltage is too low to continue the searching process 	- Drive the mower manually for charging in the Base Station
Low temp. Disc. charger	 Robomow is charged through the plug and ambience temperature is out of range (below 32 °F / 0 °C); disconnect the charger plug from the Robomow. 	 Robomow charging is not allowed when the ambience temperature is going down below 32°F / 0°C; Disconnect the charger plug and wait until the temperature will go up or take the Robomow to be charged in a warmer place.
Low temp. Waiting	 Robomow is charged through the Base Station and the ambience temperature is out of range (below 32°F / 0°C); 	- Do not do anything, the charging is stopped and Robomow is waiting for temperature to change back to the allowed range; if temperature stays out of the range for more than 12 hours, the message is changed to 'Low temp. Press GO.
Left/Mid/Right mow problem	- Mowing motor is faulty or disconnected	- Contact service provider

Message Displayed	Probable Cause/Event	Corrective/User Action
M Mowing Overload Cooling Wait	 The mowing motors have been working under a severe load for too long of a time. 	 There is no need to do anything – Robomow will renew automatically the operation, as the mowing motor will cool down.
N No Wire Signal	 Perimeter Switch is not turned on or not connected to the zone intended to mow 	- Make sure the Perimeter Switch is connected to the correct zone and is turned on
R Rain detected Go to ignore Enhanced Manual Controller only	- Robomow detects rain upon GO pressing	 Do not operate Robomow in rainy weather and wet grass; If you choose to override, press the GO button; The overriding is valid for the current operation only
Ready Keep Charging	- The battery is fully charged	 Keep the charger (power supply) connected and operating
Recharge Battery	 The maximum operating time has been reached 	- Connect the charger to the mower
Replace blades every 200 hours	 An automatic reminder to replace the blades is displayed every 200 hours 	 Replace the blades and restart the counter of the blades replacement reminder by choosing the 'Blades replaced – Clear reminder' option under the 'User Preferences' menu
Retry elsewhere	 Calibration failure from interference in the immediate area 	 Move the Robomow 10-12 feet (3-4m) from this spot and attempt calibration again.
S Set Country	- Displayed only on first use.	- Follow prompts on LCD screen to set country
Set Time	 Displayed every time the power pack is taken out of the mower (reset operation) 	- Set real time clock (day and hour)
Skipped: Low bat	- Robomow has skipped the last depart due to low battery voltage	 Confirm there is enough time between the two adjacent departures so the battery can be charged prior the scheduled operation (min 16 hours between operations)
Skipped: Rain Only Enhanced Manual Controller	- Robomow has skipped the last depart due to rain detection	- It is not recommended to cut wet or damp grass, but if you choose to override the rain sensor, change the setting of the 'Rain sensor' to 'off' under the 'User preferences' menu.
Start Elecurboro	 An unknown fault has occurred and user help is required 	 Manually drive the mower away from this particular area and restart operation
Start Elsewhere	 Wheel drive motors have been working under a severe load 	- Check to insure the mower is not stuck, allowing the wheels to slip
Start Inside	 Automatic operation is initiated while Robomow is placed out of the perimeter wire lope. 	- Place the mower inside the lawn and press the 'GO' button.
Thermistors fail	 Faulty / disconnected thermistors (overheat protection) 	- Contact service provider
Time Completed	- The operating time set for that zone has been reached	 Connect to the charger if all mowing has been completed for the day.
Waiting for signal	 Robomow has stopped the operation in Dock zone, because there is no signal received from the Base Station 	 Check the power to the Base Station. There is electrical power interruption. There is no need to do anything – Robomow will renew automatically the operation if the power will come back within an hour from the break.

8.3 Other Problems

Problem Encountered	Probable Cause/Event	Corrective/User Action	
	Base Station		
	 In general, the mower does not depart at the Program Display' (refer to section 5.2 for n 	e scheduled time, the cause is recorded under ' <i>Weekly</i> nore details).	
Robomow does not leave the	- Confirm the time in the mower is set correctly (day and hour)	- Set the time (See paragraph 5.1)	
Base Station for operation at the time set in the Weekly Program	- Low battery voltage	 Confirm there are minimum 16 hours of charging in the Base Station before the next scheduled depart 	
	 'Auto depart' is set to 'off' ('Manual depart' is displayed when the mower is in the Base Station) 	- Change the setting of the 'Auto depart' to 'on' (See paragraph 7.3)	
Robomow does not detect the Base Station contacts and/or 'Front wheel problem' is dis- played when the mower is in the Base Station	 Power supply/charger is not plugged into the main power supply 	- Confirm power supply is plugged into the main power receptacle.	
Robomow reached the Base Station when its contacts are above the Base Station contacts	 Height difference between the Base Station base and the lawn surface at the entrance to the Base Station 	 Confirm the ground before the Base Station is leveled with the Base Station base – if necessary fill the area with dirt and level off 	
Robomow does not detect the Base Station contacts and/or 'Front wheel problem' is dis- played when the mower is in the Base Station	- No power to receptacle or main power is shut off	 Check for power to this main receptacle by plugging in another appliance. Turn power on to the main receptacle. Disassemble the Base Station Cover by unscrewing the screws and check the connection of the power cable (black) and the wire connector (green). Confirm the 'ON' light is blinking in the Base Station. 	
	- Base Station and/or Robomow have burnt signs and/or corrosion	 Periodically clean the Base Station and the Robomow contacts using only a damp cloth. Contact your service provider if the contacts should be replaced 	
	 Poor or disconnection of the Base Station wires (red and green) to the contacts 	 Confirm good contacts in the tabs (end of the red and green wires) to the Base Station contacts. 	
Robomow is operated in the zone with the Base Station but stopped with 'Recharge battery' or 'time completed' message	- The Robomow was operated from the lawn (not from the Base Station) when the main display showed 'Zone B'	- When operating the Robomow from inside the lawn, confirm the main display on 'Dock zone'	
Robomow is searching for the Base Station in zone without Base Station	- The Robomow was operated from the lawn in 'Mowing' (without 'Edge') when the main display showed 'Dock zone'	 When operating the Robomow from in non-Base Station zone, confirm the main display on 'Zone B' or start the operation in 'Edge' mode. 	

Problem Encountered	Probable Cause/Event	Corrective/User Action		
	Perimeter Switch / Perimeter Switch			
'Cut wire' indicator flashing on Perimeter Switch or on Base Station	- Wire disconnected from switch	 Confirm wire is plugged in and wire leads are firmly attached 		
	- Perimeter wire cut	 Walk along perimeter, including islands and obstacles excluded with the perimeter wire and look for obvious cuts or breaks in the wire. Repair with Robomow wire splice connectors. 		
	- Poor connections	 Check and repair all loose/poor or corroded connections 		
'Poor connection' indicator flashing on Perimeter Switch or the Base Station beeps intermit- tently for poor wire splicing or too long	- Twisted cables, or a screw terminal, insulated with insulation tape is not a satisfactory splice. Soil moisture causes the conductors to oxidize and after a while result in broken circuit.	- Use the connectors supplied in the box. It is waterproof and gives a reliable electrical connection.		
	- Perimeter wire is too long for one zone	 A maximum perimeter wire length of 500 m is recommended. Areas requiring longer lengths should be broken into separate zones. 		
Perimeter Switch will not activate when turned on.	- Power Supply is not connected	 Confirm power supply is plugged into the main power receptacle, re-connect the plug to the Perimeter Switch and confirm the ON is blinking. 		
	- Batteries are completely discharged.	- Install fresh alkaline C-cell batteries		
	 Perimeter Switch not installed vertically and exposed to water/rain. 	 Water/moisture protection of the Perimeter Switch can only be insured when mounted vertically. Replace Perimeter Switch. 		

Problem Encountered	Probable Cause/Event	Corrective/User Action
	Operation	
Robomow will not operate and nothing will display on the LCD	- Mower is in deep sleep.	 If not connected to the charger at all times when not in use, the Robomow will conserve power by entering into a deep sleep mode. Lift Power Pack from mower and re-insert it after 10 seconds.
screen.	 Power Pack has been discharged from lack of charge maintenance. 	 It is required for the charger to remain connected to the Robomow when not in use. Failure to do so can cause permanent Power Pack damage. Contact your service provider.
Robomow drives but blades will not mow.	- 'Mowing' has been turned to off.	- Change back on under 'User Preferences'
	- Power Pack is not fully charged	 Connect the charger to the mower and keep it connected until the 'Ready – Keep Charging' message displays in the LCD screen.
	 'Work Time ' for that zone is set to stop at a pre-determined duration. 	 Work time can be changed under 'User Preferences'
Short run time, operates less time than normal.	 Grass is extremely over grown or very wet. 	 Raise cutting height. Always mow the grass frequently enough to prevent over growth. Refrain from cutting wet grass.
	 Power Pack is reaching a normal end of life state. 	 Replace Power Pack. Properly maintain Power Pack per instructions.
	 Manual Controller is not firmly pivoted down flush in holder, allowing it to bounce up and stop the mower. 	 Confirm the coiled cord is fully placed into the holder below the Manual Controller and the Manual Controller closes flush with the top of the mower.
Robomow has crossed over wire during operation CAUTION The Robomow is designed to remain within an active perimeter of your lawn when properly installed. In the unlikely event that the mower does cross over the wire, DO NOT use the mower until the problem is corrected. If changing the perimeter wire placement does not correct this problem, contact you service provider.	- Improper perimeter wire setup OR adjacent zone (closer than 13 feet / 4 m) operated simultaneously.	- Refer to the setup rules for wire placement, particularly for corners. Do not operate adjacent plots simultaneously when closer than 13 feet (4 m).
Robomow does not complete the edge in a non-docking zone.	Peculiar geometry of perimeter	Perform ' <i>Learn Edge'</i> (refer to 7.2.1 Chapter 7-4).
	Low ground clearance.	Raise ground clearance to the uppermost position.
The Robomow gets stuck fre- quently when traveling over less	Cutting height too low.	Raise cutting height
than optimal terrain.	Terrain needs landscaping repairs.	Fill in all holes, cover or exclude all exposed roots etc in order to smooth the terrain.

Problem Encountered	Probable Cause/Event	Corrective/User Action
	Display	
LCD display is in a foreign language.	The language setting was changed or not cor- rectly set.	Remove the Manual Controller and follow the sequence listed; 1. Press 'C' button several times 2. Press 'GO' button twice 3. Press '4x (a) (a) 'arrow key (4 times) 4. Press 'GO' button once 5. Using the arrow, scroll to the correct language 6. Press 'GO' to confirm this selection
Problem Encountered	Probable Cause/Event	Corrective/User Action
	Mowing	
	 Power Pack is not fully charged for operation. 	 Connect the charger to the mower and keep it connected until the 'Ready–Keep Charging' message displays in the LCD screen.
	- 'Work Time' not sufficient for zone size.	 Increase 'Work Time' under 'User Preferences' OR set 'Work Time' to 'MAX'
Large patches of uncut grass remain after Robomow has completed mowing.	- Power Pack nearing natural end of life	 Replace Power Pack and follow maintenance instructions in manual.
	- Grass is extremely overgrown or very wet.	 Raise cutting height. Always mow the grass frequently enough to prevent over growth. Refrain from cutting wet grass.
	 Power Pack capacity is damaged from poor maintenance. 	 Replace Power Pack and follow maintenance instructions in manual.
Poor quality of mowing (grass clippings are left on the lawn)	- Grass is too high	 It is recommended to cut not more than a 1/3 of the green part of the grass. Set the cutting height to a higher position Use Robomow more frequently to maintain your lawn
The bumper does not activate when striking an obstacle.	- Grass is wet	 For best cut, operate Robomow when the grass is dry. It is recommended to mow grass early afternoon.
	- Blades are worn	- Replace blades.
	- The obstacle is less than 6 inches (15 cm) in height, is not rigid enough or is positioned at an angle relative to the ground preventing square contact with the outermost surface of the bumper.	 Remove the obstacle Setup a wire around the obstacle (refer to 2.2.1/ Chapter 2-3) Exclude it from the cutting area with the perimeter wire.

Chapter 9 Specifications

Dimensions

89 cm l x 66.5 cm w x 31.5 cm h (35" l x 26" w x 12.5" h)

Weight

23.7 kg (52 lb.) Unit + 14.1 kg (28 lb.) Power Pack

Noise level

Measured - 76.6 db (Guaranteed - 80 db)

Mowing Width

3 Blades and a total cutting width of 53 cm (21") Cuts 1.5 cm (0.59 ") outside the wheels

Mowing Height

6 settings at the front and 2 at the rear High Cut Blade: 38-89 mm (1.5"-3.5") Low Cut Blade: 26-63 mm (1"-2.5")

Blade Motor RPM

5800 RPM

Equivalent Mowing Power*

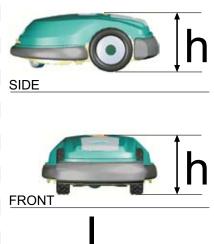
5 HP gas walk mulching mower

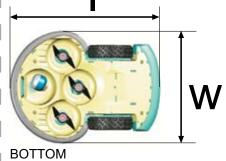
* Side by side comparison

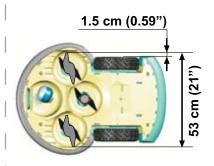
Theft Guard Code

Write down your 4-digit Theft Guard code. Return here, if you ever forget the code.

Robomow Serial Number







Chapter 10 Maintenance and Storage

10.1 Recommended Maintenance Schedule

Maintenance Service Interval	Maintenance Procedure
Each Use	 Check and remove grass clippings and dirt from the mowing deck if necessary, particularly when mowing wet and damp grass. Charge the Power Pack after every use.
50 Hours	Remove Power Pack and check for any damage on the blades.
150 – 200 Hours	 Replace the blades. Replace more frequently if the edges are dull in rough or sandy conditions. IMPORTANT Remember to restart the automatic blades replacement reminder after every blades replacement.

10.2 Maintenance of the Mowing Deck

Robomow is a dedicated mulching mower. It may accumulate clippings under the mowing deck, particularly when mowing wet or damp grass.



Warning

Severe injury hazard!

Always remove the Power Pack before lifting the mower. Blades are very sharp. They can cause severe cuts or lacerations.

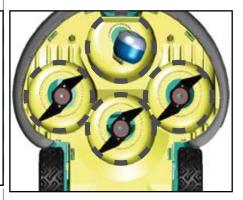
Always wear heavy work gloves when working with or around the blades.

NEVER, use a damaged or a broken blade. Use only sharp blades.

- O Inspect the underside of the mowing between operations. Clean if necessary.
- Carefully scrape the collected grass debris from under the mowing deck.

Most grass accumulation can be removed using a small wooden stick or similar object.

You may remove the blades to gain better access to the mowing chambers.



IMPORTANT Do not place the mower upside down; this can damage the Manual Controller.

Instead, lean the mower against a surface to gain access to the mowing deck area.

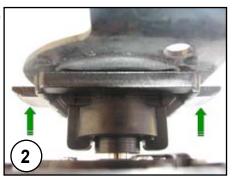
D IMPORTANT D NEVER use a water hose or any type of liquid to clean the underside of the mower. Liquids can damage components.

Use only damp or wet cloth to wipe the surface clean after scrapping.

10.3 Maintenance of the Blades

- O Examine the cutting blades for damage between operations.
- O Use only sharp blades. Replace any damaged blade.
- O Replace blades at least once per season, more often if they are severely dulled.
- O To remove the blades:
 - ✦ Squeeze locking tabs on each side of blade retainer (1).
 - ✦ Pull blade assembly off, away from mower (2, and 3).
 - When reinstalling the blade, line up the mating splines and push until a firm click is heard, indicating a proper seating of the blade onto the shaft (4).









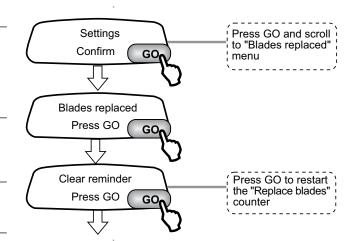
CAUTION! ALWAYS REMOVE POWER PACK BEFORE SERVICING BLADES!



D IMPORTANT **D** IT is recommended to replace all three blades for best performance. Machine sharpening is not recommended, as it may create difficulties in balancing.

Robomow automatically displays a reminder for blades replacement after every 200 hours of operation.

D IMPORTANT D Remember to restart the "Replace Blades" counter after each blades replacement.

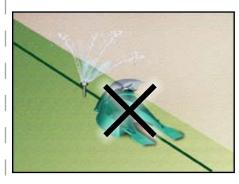


10.4 Maintenance of the Outer Housing

Use only a damp cloth and a dry brush to clean the outer surfaces of Robomow. A cloth may be soaked in a light detergent diluted with water, and then wringed dry for using on Robomow.

IMPORTANT Never use harsh or abrasive cleaning solutions. Never spray with a garden hose or other type of liquid spray hose.





10.5 Maintenance of the Power Pack

Always follow the maintenance and charging instructions for the Power Pack (see chapter 6).

10.6 Disposing the Old Battery Pack

D IMPORTANT D Do not place used batteries in your household trash. The battery must be collected, recycled, or disposed of in an environmentally sound manner. Return the old power pack to an approved sealed lead (acid) battery recycler.

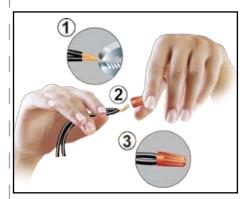
10.7 Splicing the Perimeter Wire

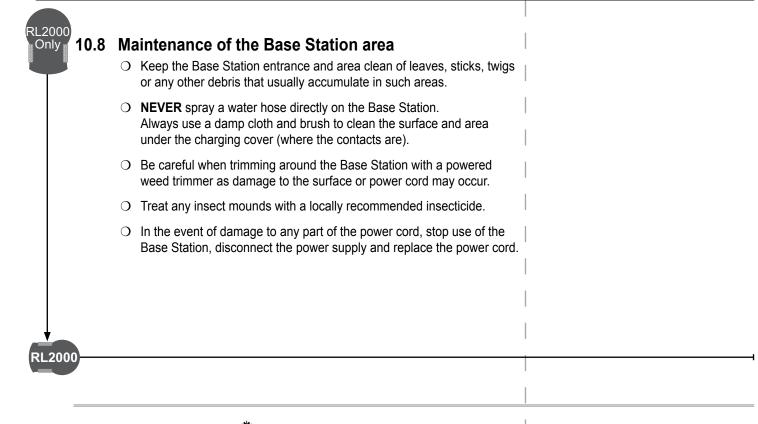
If the perimeter wire needs to be spliced: Use the connectors supplied in Robomow's box. It is waterproof and gives a reliable electrical connection.

- O Strip 1cm (0.5 inch) of each wire end together
- O Twist the stripped ends together using pliers.
- O Insert the twisted wires into the splicing connector.
- O Screw the wire connector on the twisted wires; make sure it is tight.

IMPORTANT **Neither** Twisted cables, **nor** a screw terminal insulated with insulation tape are a satisfactory splice.

Soil moisture will cause such conductors to oxidize and which later leads to a broken circuit.





10.9 Winter Storage 🗱

10.9.1 Storing the Power Pack

- O Fully charge the Power Pack till 'Ready keep charging' is displayed.
- O Separate the Power Pack from Robomow for storing.
- Store the Power Pack off the ground in a cool, dry place.
 Temperature should not be colder than -4 °F (-20 °C).

A fully charged Power Pack may be stored for up to 3 months before recharging it, if stored in a cool, dry place.

O Charge the Power Pack before using the Robomow for the first time next season.

10.9.2 Storing Robomow

- O Remove the Power Pack and clean Robomow
- Store Robomow in a clean dry place.
 Cover it to keep it clean and protected.
- Store Robomow standing on its wheels with a free space around the bumpers.

IMPORTANT Do not store Robomow on its bumpers. Make sure nothing else presses against the bumpers.

• Check the condition of the blades. If necessary, replace the blades. Ready Keep Charging

10.9.3 Storing the Perimeter Switch O Disconnect the Perimeter Switch, remove the batteries and store it in a dry place.

10.9.4 Storing the Base Station

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RL2000

It is recommended to remove the Base Station for the winter:

- O Disconnect the power supply from the power receptacle.
- O Disconnect the 15m extension cord from the Base Station Board.
- O Remove the extension cord and place it in dry place.

If it is not practical to remove the extension cord (15m cable): disconnect if from the board and protect it for the winter to prevent oxidation.

- O Unscrew the two screws holding the Base Station Cover.
- O Disconnect the green plot connector (between the perimeter wire and the Charging board).
- O Disconnect the green plot connector and place a water proof wire connector over the two free perimeter wire ends.

This prevents wire corrosion while not connected to the station.

- O Store all other parts in a dry place.
- O Getting ready for the new season
 - Before the new mowing season starts, lightly polish the charge contacts on the Robomow and the Base Station with a small piece of fine sandpaper, 200 grit or higher or with steel wool of '00' or higher grade.

This will remove any oxidation and allows optimal contact.

 Before the first operation of the new season, reconnect Base Station setup (see chapter 2).





Chapter 11 Accessories



Blade Set

Keep a spare blade set on hand. Sharp blades are important for safety and good cutting performance.



Peg Pack (50) For larger lawns and additional zones.



Wire connector Used for repairing or splicing wires (as needed).



Perimeter Wire For larger lawns and additional zones.



Plot connector Used for connecting the completed perimeter wire set-up to the perimeter switch



Power Pack Convenience of increasing capacity with a second battery.



Perimeter Switch Convenience of having a switch for each zone and not moving one switch from zone to zone.



External Charger Recharges the primary or additional Power Pack outside of the mower.



Batteries Pack for Perimeter Switch Preferable for areas where electricity is not available or not close enough to the Perimeter Switch.

Chapter 12 Tips for maintaining your lawn Robomow[®]- Lawn care has never been so easy

Best time to mow

Mow your lawn when the grass is dry. This prevents the clippings from clumping and leaving piles on the lawn. Mow it late in the day rather than during the heat of the day.

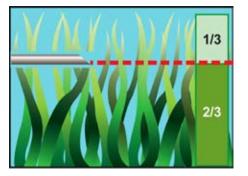
Mowing frequency

Mow often, producing short, small clippings. During the active growing season the mowing frequency should be increased to once every 3-5 days, before the grass is too long. Short clippings decompose quickly and will not cover the grass surface. If the grass gets too high, raise the cutting height, mow, then gradually lower it over several mowings.

Cutting Height

Follow the "1/3 rule:" mow no more than 1/3 of the length of the grass. Proper mowing will produce short clippings that will not cover up the grass surface.

You may have to cut the lawn more frequently, or double cut, when the lawn is growing fast, such as in the spring.



Water

Grasscycling reduces the amount of water needed by lawns since the clippings are about 80 - 85% water. Grasscycling slows evaporation losses from the soil surface, and conserves water. Most lawns need less water when Grasscycling.

Watering

Water your lawn between 4 a.m. and 8 a.m. in the morning, so water has time to soak into the soil before the heat of the sun causes evaporation.

Your lawn needs 1 to 1-1/2" (3-4cm) of water weekly. Deep watering allows grass to develop a deep root system, enabling the lawn to resist disease and drought.

Do not over water

Too much water is not only wasteful but can also increase turf growth, which requires more frequent mowing. Let the soil partially dry out between watering. Water when the top two inches of soil have dried out. Use an object such as a screwdriver to probe your soil and measure the depth of the moisture.

Fertilization

Grasscycling reduces the amount of lawn fertilizer needed because the clippings provide about 1/4 of a lawn's annual needs.

Blades

Keep your mower blades sharp. Sharp blades provide a clean, safe and efficient cut. Dull mower blades will tear and shred the tips of the grass, which can provide an entry point for disease organisms and weaken the grass plant. It is recommended to replace all three Robomow blades once a year.

Thatch

Clippings and thatch are simply <u>not</u> connected. As mentioned previously, grass clippings are approximately 80-85 percent water with only small amounts of lignin, and decompose rapidly.

When we stop and think about it, golf courses, sports fields, and parks have been mowing grass for years and recycling with no grass catchers.

A small amount of thatch (approximately 1/2 inch) is actually beneficial to a lawn. Grass clippings protect your lawn's root system from heat and water loss.





Friendly Robotics warrants to the original purchaser that the RL series 'Product' is free from defects in materials and workmanship when used under normal residential* purposes for a period of 24 months, 12 months for the batteries, beginning from the date of purchase. Product accessories, including replacement batteries, are warranted for a period of ninety days from the date of purchase. This warranty provides for the cost of parts and labor to repair covered defects when performed by an authorized Friendly Robotics service and warranty facility. A valid proof of purchase is required for warranty repairs.

The limited warranty does not cover transportation costs of any kind. The owner bears all responsibility for transportation costs to an authorized Friendly Robotics service and warranty facility.

*Normal residential purposes is defined as use of the product on the same lot as your primary home. Use at more than one location is considered commercial use, and this warranty would not apply.

Items and Conditions Not Covered

This express warranty does not cover the following:

- · Cost of regular maintenance service parts or procedures, such as blades or blade sharpening.
- Any product or part that has been altered, misused, abused or requires replacement or repair due to accidents or lack of proper maintenance.
- Normal wear and tear, including fading of paint or plastic parts.
- Cost of installation or reinstallation, removal of installation or any costs or damages associated with improper installation or use of product.
- Any product that has been opened, repaired, modified or altered by anyone other than a Friendly Robotics authorized repair facility.
- Repairs necessary due to improper battery care and/or improper charging process such as charging in wet conditions, electrical supply irregularities, or failure to properly prepare the mower or battery prior to any period of non-use.
- Repairs necessary due to water damage, other than incidental rain exposure, repairs due to lighting or other acts of God.

Instructions for Obtaining Warranty Service

Should you feel your Friendly Robotics product contains a defect in materials or workmanship, contact the retailer who sold you the product.

Owner Responsibilities

You must maintain and care for your Friendly Robotics product by following the maintenance and care procedures described in the owner/operator manual. Routine maintenance, whether performed by a service provider or by you, is at your expense.

General Conditions

Repair by an authorized Friendly Robotics service and warranty repair facility is your sole remedy under this warranty. There is no other express or implied warranty. All implied warranties of merchantability and fitness for use are limited to the duration of this express warranty. Friendly Robotics is not liable for indirect, incidental or consequential damages in connection with the use of the Friendly Robotics Product covered by this warranty, including any cost or expense of providing substitute equipment or service during reasonable periods of malfunction or non-use pending completion of repairs under this warranty. Some states do not allow exclusions of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusion and limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

Always follow the safety instructions specified in this Manual

Robomow®

To register your product online, go to www.robomow.com/register/

www.robomow.com / www.robomow.eu