

# Operator's manual smart SILENO free

Read the operator's manual carefully and make sure that you understand the instructions before you use the product.



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# 1 Safety

#### 1.1 Safety definitions

Warnings, cautions and notes are used to point out specially important parts of the manual.



**WARNING:** Used if there is a risk of injury or death for the operator or bystanders if the instructions in the manual are not obeyed.



**CAUTION:** Used if there is a risk of damage to the product, other materials or the adjacent area if the instructions in the manual are not obeyed.

**Note:** Used to give more information that is necessary in a given situation.

#### 1.2 General safety instructions



**WARNING:** Read the warning instructions that follow before you use the product.

- Read the Operator's manual carefully and make sure you understand the instructions before you use the product. Keep for future reference.
- This appliance is not intended for use by children or persons with reduced physical, sensory or mental capabilities (that could affect a safe handling of the product), or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- The product must only be used with the equipment recommended by GARDENA. All other types of use are incorrect.
- The product is not a toy. The blades of the product can cause injury to persons and animals. Do not let children less than 8 years of age be in the mowing area during operation. Children and animals must be supervised at all times during operation.
- All persons must be a minimum of 3 m/10 ft away from the product when it is in operation. Do not for example sleep or sunbathe in the mowing area when the product is in operation.
- Warning signs must be put around the mowing area of the product if it operates in public areas.
   The signs must have the text that follows: Warning!
   Automatic lawn mower! Keep away from the machine! Supervise children!

- Do not run when you operate the product manually with Remote Control. Make sure that you have a safe and stable position at all times. Make sure that there are no persons near the product when it operates in steep slopes. Always wear substantial footwear and long pants when you operate the product with Remote Control.
- To set the product to OFF, go behind the product and push the STOP button. You can use the app to pause the product if it is applicable for your product. When the product is set to OFF, wait minimum 3 seconds before you move the product.
- Do not touch moving hazardous parts, such as the blade disc, before it has come to a complete stop.
- Set the product to OFF before you clear a blockage, do maintenance or examine the product, and if the product starts to vibrate abnormally.
   Examine the product for damage before you start the product again. Do not use the product if it is damaged.
- If an injury or accident occurs, get medical aid.
- Do not put power supply cable and extension cable in the mowing area. This can cause damage to the cables
- Do not connect a damaged cable or plug, or touch a damaged cable, before it is disconnected from the power outlet. Disconnect the plug from the power outlet if the cable becomes damaged while in operation. A worn or damaged cable increases the risk of electrical shock. A damaged cable must be replaced by service personnel.
- When you connect the power supply to the power outlet, use a residual-current device (RCD) with a tripping current of maximum 30 mA.
- Only charge the product in the included charging station. For safe disposal of the battery, refer to Disposal on page 37. Incorrect use may result in electric shock, overheating or leaking of corrosive liquid from the battery. In the event of leakage of electrolyte, flush with water/neutralizing agent. Get medical aid if corrosive liquid comes in your eyes.
- Use only original batteries recommended by GARDENA. Product safety cannot be guaranteed with other than original batteries. Do not use nonrechargeable batteries.
- Follow the installation instructions that includes to specify the mowing area, refer to *Installation on* page 14.
- Follow the instructions about to start and operate the product, refer to Operation on page 22.
- If there is a risk of thunderstorm, GARDENA recommends that the power supply is disconnected from the charging station to decrease the risk of damage to electrical components. Connect the power supply again if there is no longer a risk of thunderstorm.

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- Follow the maintenance instructions and use GARDENA original spare parts, refer to Maintenance on page 26.
- For technical data such as weight, dimensions and noise emission values, refer to Technical data on page 38.
- The operator is responsible for accidents or dangers that occurs to other persons or property.
- The product must only be operated, maintained and repaired by persons that are fully conversant with its special characteristics and safety regulations.
- It is not permitted to change the initial design of the product.
- · Obey national regulations about electrical safety.
- GARDENA does not guarantee full compatibility between the product and other types of wireless systems such as remote controls, radio transmitters or equivalent.
- Operation and storage temperature range is 0-50
  °C / 32-122 °F. Temperature range for charging is
  0-45 °C / 32-113 °F. Too high temperatures can
  cause damage to the product.

#### 1.3 Safety instructions for installation



**WARNING:** Read the warning instructions that follow before you use the product.

- Do not install the charging station in an area where there is a risk that persons trip on it.
- Do not install the charging station, including any accessory, at a location that is below, or within 60 cm / 24 in. from, any combustible material. In case of malfunction, heating of the charging station and the power supply may occur and create a potential risk of fire
- Do not put the power supply at a height where there is a risk it can be put in water. Do not put the power supply on the ground.
- Do not encapsulate the power supply. Condensed water can harm the power supply and increase the risk of electrical shock.
- Do not install the charging station where there are pests, for example ants.
- Applicable to USA/Canada. If power supply is installed outdoors: Risk of Electric Shock. Install only to a covered Class A GFCI receptacle (RCD) that has an enclosure that is weatherproof with the attachment plug cap inserted or removed.
- Do not install the charging station where there is a risk of standing water.

### 1.4 Safety instructions for operation



**WARNING:** Read the warning instructions that follow before you use the product.

- Keep your hands and feet away from the rotating blades. Do not put your hands or feet near or below the product when it is set to ON.
- Use the park mode or set the product to OFF when persons, especially children or animals are in the mowing area. Refer to To set the product to OFF on page 24. GARDENA recommends to set the product to operate when the area has no activity. The product can cause injury to animals at night in mowing area, for example hedgehogs. Refer to Schedule settings on page 21.
- Make sure that there are no objects such as stones, branches, tools or toys on the lawn. The blades can be damaged if they hit an object.
- Do not lift the product or move it when it is set to ON
- Do not to let the product collide with persons or animals. If a person or animal comes in the way of the product, stop the product immediately. Refer to To stop the product on page 23.
- Do not put objects on top of the product or its charging station.
- Do not use the product if the STOP button does not work
- Always set the product to OFF when it is not in operation. The product can only start when you enter the correct PIN code.
- Do not use the product at the same time as a pop-up sprinkler. Use the Schedule function so the product and pop-up sprinkler do not operate at the same time. Refer to Schedule settings on page
- Do not let the product operate when there is standing water. For example when heavy rain forms pools of water.

### 1.5 Safety instructions for maintenance



**WARNING:** Read the warning instructions that follow before you do maintenance on the product.

- Set the product to OFF when you do maintenance on the product.
- Do not use a high-pressure washer to clean the product. Do not use solvents to clean the product.
- Disconnect the plug to the charging station before you clean or do maintenance of the charging station

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#### 1.6 Battery safety



**WARNING:** Read the warning instructions that follow before you use the product

- Lithium-ion batteries can explode or cause fire if disassembled, short-circuited, exposed to water, fire, or high temperatures. Handle carefully, do not dismantle, open the battery or use any type of electrical/mechanical abuse. Avoid storage in direct sunlight.
- Do not use a damaged battery. Dispose the battery if it is damaged. Refer to Disposal on page 37.

### 1.7 To lift and move the product



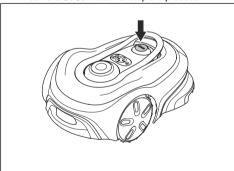
WARNING: The product must be set to OFF before you lift the product. The product is disabled when the indicator on the **ON/OFF** button goes off.



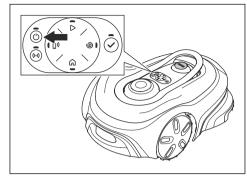
**CAUTION:** Do not lift the product when it is parked in the charging station. It can cause damage to the charging station and/or the product. Push the **STOP** button and pull the product out of the charging station before you lift it.

To safely move the product:

1. Push the STOP button to stop the product.



Push the **ON/OFF** button for 3 seconds to set the product to OFF.



- Make sure that the product is disabled. The indicator on the **ON/OFF** button goes off when the product is disabled. Refer to *To use the keypad on* page 10.
- Lift the product by the handle with the blade disc away from your body.



#### 1.8 Cyber security

Security recommendations:

- Do not set up or operate the product on untrusted or public networks.
- At regular time intervals, do a check if there are firmware updates available to install to keep the system secure.

#### 1.8.1 Bluetooth® interface

The Bluetooth® interface is enabled by default to help with set up, mobile device connection, local device control and configuration of the product with a mobile device. The Bluetooth® connection uses a PIN code or password that is different for each product through the app. All device connection are made safe with a standard BLE encryption. Use a strong, unique PIN to increase security.

#### 1.8.2 Wi-Fi interface

The Wi-Fi interface on the product enables connection to your private Wi-Fi network for remote control through the companion app and for firmware updates, and

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location-based services. The Wi-Fi connections are protected with WPA2/WPA3 encryption protocols. Use a strong, unique password for your private Wi-Fi network and make sure that the product connects only to trusted networks.

#### 1.8.3 Location service

The location service uses GPS to show the product location. This is to enable the geofencing function (theft protection) and to let operators see the product location through the companion app.

#### 1.8.4 External services

These services are available through the network interfaces:

- Backend Services: Enables secure management and configuration of the product through authenticated access with the companion app or web-based portal, as well as telemetry data exchange.
- Firmware update service: This service sends new firmware over the air (FOTA) to the product. These updates keep the product security and product functions up to date.
- Location service: This service shows the position of the product with GPS. You must enable this service in the app before you can use it.

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#### 2 Introduction

#### 2.1 Introduction

Serial number:

PIN code:

Product registration key:

The serial number is on the product carton and on the product rating plate. Refer to *Product overview on page 8*.

• Use the serial number to register your product on www.gardena.com.

#### 2.1.1 Support

For support about the GARDENA product, speak to your GARDENA customer service.

#### 2.1.2 Product description

**Note:** GARDENA regularly updates the appearance and function of the products. Refer to *Support on page 7*.

The product is a robotic lawn mower. The product has a battery power source and cuts the grass automatically. It continuously alternates between mowing and charging. The movement pattern is random, which means that the lawn is mowed evenly and with less wear. The installation of the mowing area is made in the app and uses satellite signals for positioning.

#### 2.1.2.1 Mowing technique

The frequent cutting technique improves the grass quality and decreases the use of fertilizers. Collection of grass is not necessary. The *Trim-to-Edge* function and the edge cutting disc make it possible for the product to cut near the edges of the lawn.

#### 2.1.2.2 Connectivity

Install the Gardena smart Gateway and connect the product to use the GARDENA smart system App. The

GARDENA smart system App is used to install and operate the product. Refer to *To download and pair with the GARDENA smart system App on page 19.* The GARDENA smart system App is compatible with Android and iOS. You can use the app with iOS 17, Android 9, or a newer version of the operating system.

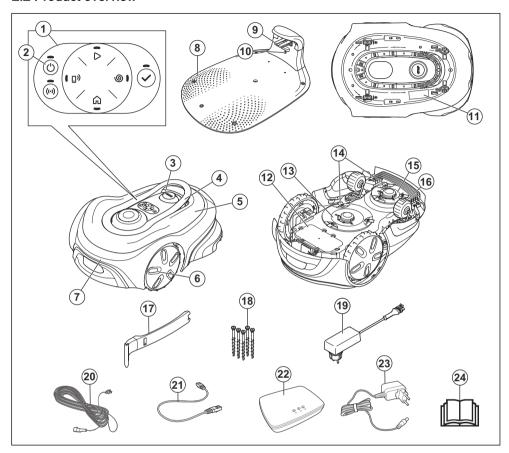
#### 2.1.2.3 System description

The system contains a robotic lawn mower, a charging station and the GARDENA smart Gateway. For installation of virtual boundaries, the product uses satellites and correction data to navigate. The correction data is received through the GARDENA smart Gateway. To make an installation the product is operated with Remote control in the GARDENA smart system App. Waypoints are added to make a map in the app.

The virtual boundary is installed around an area to specify where the product can operate. The product only cuts grass in the mowing areas. The No-go zones are areas where the product cannot enter. The product uses the docking point in front of the charging station to navigate to and from the charging station.

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#### 2.2 Product overview



- 1. Keypad
- 2. ON/OFF button
- 3. STOP button
- 4. Handle
- 5. Top cover
- 6. Front wheels
- 7. Body
- 8. Charging station
- 9. Contact plates
- 10. LED for operation check of the charging station
- Rating plate<sup>1</sup>
- 12. Chassis box with electronics, battery and motors
- 13. Main blade disc

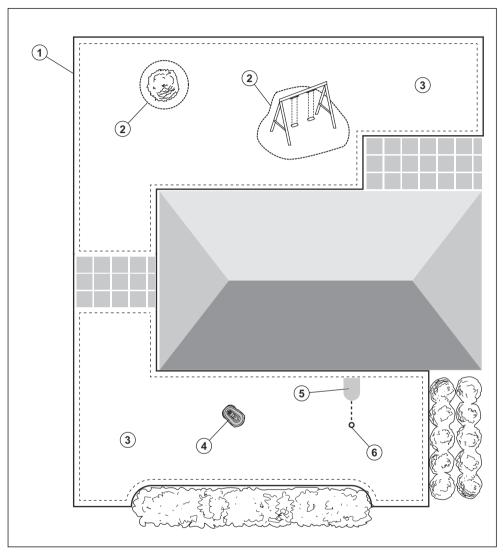
- 14. Blades
- 15. Edge cut disc
- 16. Rear wheels
- 17. Installation aid
- 18. Screws to attach the charging station
- 19. Power supply<sup>2</sup>
- 20. Low-voltage cable
- 21. GARDENA smart Gateway LAN-cable
- 22. GARDENA smart Gateway
- 23. GARDENA smart Gateway power supply
- Operator's Manual, Quick Guide and instruction for the GARDENA smart system

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<sup>&</sup>lt;sup>1</sup> Found below the top cover. The top cover must be removed to access it.

<sup>&</sup>lt;sup>2</sup> The appearance can be different for different markets.

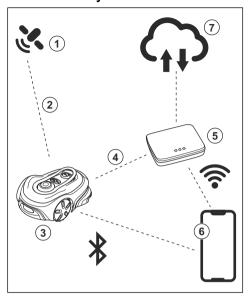
# 2.3 Installation overview



- 1. Virtual boundary
- 2. No-go zones
- 3. Mowing areas
- 4. Robotic lawn mower
- 5. Charging station
- 6. Docking point

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#### 2.4 Connectivity overview



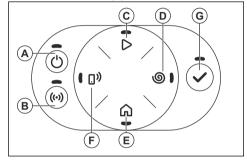
- 1. Satellites
- 2. Satellite signals
- 3. Robotic lawn mower
- 4. Correction data
- 5. GARDENA smart Gateway
- 6. Mobile device with GARDENA smart system App
- 7. GARDENA Cloud

### 2.5 To use the keypad

Use the keypad on the product to operate the product. Push the button for 1 second or 3 seconds to set an

operating mode, refer to *Operating modes on page 22*. When you push the button for 3 seconds, the LED on the button flashes 3 times when an operating mode is selected. You must enter the PIN code for the product before you can select an operating mode.

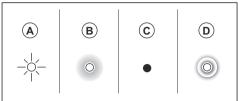
- Use the ON/OFF button (A) to set the product to ON or OFF.
- Use the Connectivity button (B) to enable the pairing operation for the GARDENA smart system.
- Use the **Start** button (C) to start the operation of the product according to schedule.
- Use the SpotCut button (D) to set the product to operate in a spiral pattern. The product cuts the grass in the area where it started.
- Use the **Park** button (E) to send the product to the charging station.
- Use the Remote control button (F) to operate the product remotely with the app.
- Use the **OK** button (G) do the selections.

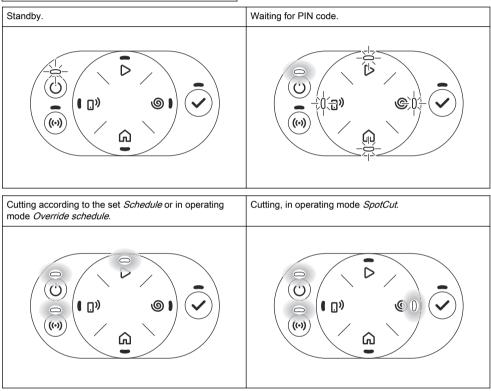


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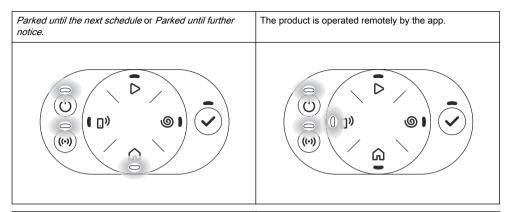
#### 2.5.1 LED status indicator on the keypad

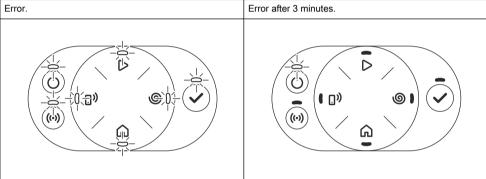
The LED status indicator on the keypad shows the status of the product. There are 4 light modes on the LED indicator: the light flashes quickly (A), the light is solid (B), the light is out (C), and the light pulsates (D).

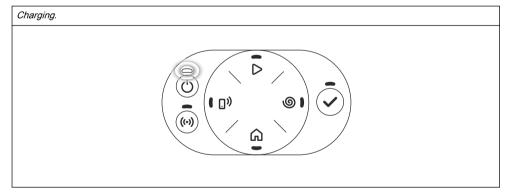




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# 2.6 Symbols on the product

These symbols can be found on the product. Study them carefully.

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**WARNING:** Read the user instructions before operating the product.





**WARNING:** Disable the product before working on or lifting the product.



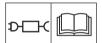


**WARNING:** Keep a safe distance from the product when operating. Keep your hands and feet away from the rotating blades.





**WARNING:** Do not ride on the product. Do not put your hands or feet close to or under the product.



Use a detachable power supply as defined on the rating plate next to the symbol.



This product complies with the applicable EU Directives.



This product complies with the applicable UK Directives.



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



The low-voltage cable must not be shortened, extended or spliced.

Do not use a trimmer nearby the lowvoltage cable. Be careful when trimming edges where the cables are placed.

# 2.7 Symbols on the battery



WARNING: Lithium-ion batteries can explode or cause fire if disassembled, short-circuited or handled roughly. Do not expose to water, fire or high temperature.



Read the user instructions.



Do not discard the battery into fire and do not expose the battery to a heat source.



Do not immerse the battery into water.

#### 2.8 Product damage

We are not responsible for damages to our product if:

- the product is incorrectly repaired.
- the product is repaired with parts that are not from the manufacturer or not approved by the manufacturer.
- the product has an accessory that is not from the manufacturer or not approved by the manufacturer.
- the product is not repaired at an approved service center or by an approved authority.

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#### 3 Installation

#### 3.1 Introduction - Installation

Refer to www.gardena.com for more information about installation and instruction videos.

We recommend you to update the firmware before you install the product to make sure that the product has the latest firmware. Refer to *Firmware update on page 28*.



**WARNING:** Read and understand the safety chapter before you install the product.



**CAUTION:** Use original spare parts and installation material.

#### 3.1.1 Primary components for installation

The installation includes the components that follow:

- Robotic lawn mower, that cuts the lawn automatically.
- Charging station, that charges the product.
- Power supply unit, which is connected to the charging station and a 100-240V power outlet.
- Mobile device with the GARDENA smart system App to do the installation and the settings for the product.
- GARDENA smart Gateway, to connect the mower to the GARDENA smart system App and control the product remotely.
- Power supply unit, which is connected to the GARDENA smart Gateway and a 100-240V power outlet

#### 3.1.2 To prepare for installation



**CAUTION:** Holes with water in the lawn can cause damage to the product.

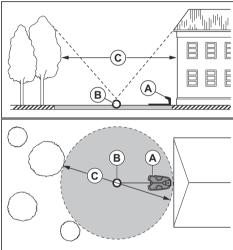


**CAUTION:** Read the installation chapter before you start the installation.

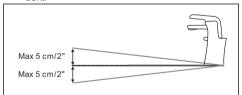
- Make a blueprint of the area and include all obstacles.
- Make a mark on the blueprint where to put the charging station, the virtual boundaries, the mowing areas and the No-go zones.
- Follow the instructions for distances between obscuring objects.
- · Fill in holes in the lawn to make it level.
- Cut the grass before you install the product. Make sure that the grass is maximum 4 cm / 1.2 in.

# 3.1.3 To examine where to put the charging station

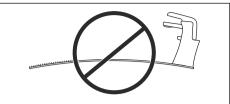
 Put the charging station (A) where the docking point (B) has unimpeded sky view. The charging station docking point (B) is where the product stops after going out from the charging station. The distance to the docking point can be set to 70–250 cm / 28–98 in. GARDENA recommends to have a minimum 6 m / 20 ft. (C) of free space in front of the charging station.



- The docking point must be in the area that is set by the virtual boundary. The charging station can be put inside or outside of the area that is set by the virtual boundary.
- You can put the charging station in a mower garage.
- Put the charging station near a power outlet.
- · Put the charging station on a level surface.
- The baseplate of the charging station must not be bent.



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 If the mowing area has slopes, GARDENA recommends to put the charging station in the lower section.



**CAUTION:** Do not install the charging station where there are metal objects in the ground. Metal objects can cause interference with the charging station signal.

# 3.1.4 To examine where to put the power supply



**CAUTION:** Make sure that the blades on the product do not cut the low-voltage cable



**CAUTION:** Do not put the low-voltage cable in a coil or below the charging station plate. The coil causes interference with the signal from the charging station.



- Put the power supply in an area with a roof and protection from the sun and rain.
- Put the power supply in an area with good airflow.
- Use a residual-current device (RCD) with a tripping current of maximum 30 mA when you connect the power supply to the power outlet.

Low-voltage cables of different lengths are available as accessories.

#### 3.1.5 Installation of the map



**CAUTION:** If the virtual boundary is adjacent to water bodies, slopes, precipices or a public road, there must be a protective wall. The wall must be minimum 15 cm / 6 in. in height.



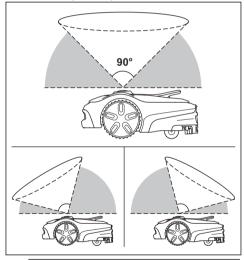
**CAUTION:** Do not let the product operate on gravel.

- The virtual boundary sets the outer borders of the area where the product is permitted to operate. Inside the virtual boundary you can install mowing areas, where the product can cut grass. You can also install No-go zones, where the product must not operate. You can only have 1 virtual boundary in an installation, but you can have several mowing areas and No-go zones.
- For careful operation without noise, isolate all obstacles for example trees, roots and stones.

**Note:** A sufficient GNSS signal and a good internet connection are necessary for the robotic lawn mower to operate. These conditions must also be available in the mowing area, for example, the garden. GARDENA is not responsible for the quality, function, coverage, or hardware updates that are necessary to use or keep this connection.

#### 3.1.5.1 To make an installation near buildings and trees

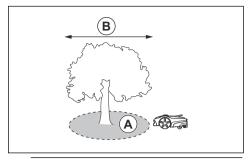
 Make sure that 90° section of the sky is unimpeded where the product operates.



**Note:** The product cannot receive signals from the satellite for navigation if the sky is impeded.

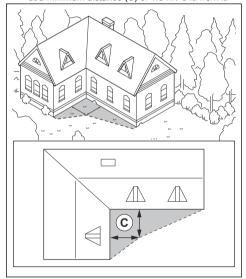
Make a No-go zone (A) around trees or a group of trees with tree canopies that are more than 4 m / 13 ft. in diameter (B).

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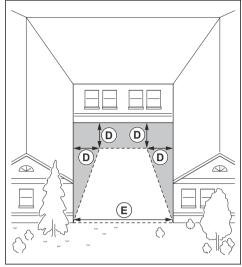


**Note:** Trees or a group of trees with tree canopies that are more than 4 m / 13 ft. in diameter (A) can cause temporary stops for the product. Smaller trees do usually not cause interference with the operation of the product.

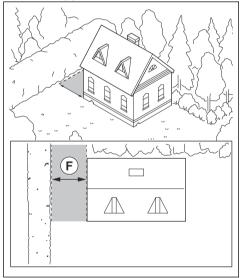
 For L-shaped buildings, install the virtual boundary at a minimum distance (C) of 1.5 m / 5 ft. from it.



To install virtual boundaries in an area with an U-shaped building, make sure that the distance (E) is minimum 6 m / 20 ft. If the building is higher than 3 m / 10 ft., make sure that the distance (E) is twice the height of the highest building. Install the virtual boundary at a minimum distance (D) of 1.5 m / 5 ft. from the building.



 Make sure that the areas between objects have a distance (F) of minimum 4 m / 13 ft.



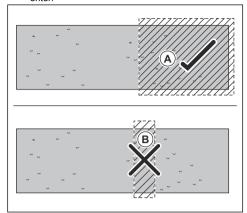
 The width of passage without obscuring obstacles, can be minimum 1 m / 3.3 ft. to get a good cutting result.

#### 3.1.5.2 To examine where to make No-go zones

- Make No-go zones around objects that are larger than 2x2 m / 6.6x6.6 ft.
- Make sure that the No-go zone is minimum 30x30 cm / 1x1 ft.

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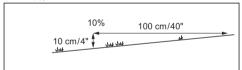
 Make sure that the No-go zone includes the complete area (A) where the product must not enter.



**Note:** Do not make a No-go zone (B) across the mowing area to prevent the product to enter parts of the mowing area.

#### 3.1.5.3 To install the map objects in a slope

The product can operate in 30% slopes. The slope (%) is calculated as height for each m. Example: 10 cm / 100 cm = 10%.



- For slopes more than 30% in the virtual boundary, isolate the slope with a No-go zone.
- For slopes adjacent to a public road, put a fence or a protective wall along the outer edge of the slope.
   The wall must be minimum 15 cm / 6 in. in height.
- Install the virtual boundaries in slopes that are maximum 15%.

### 3.2 Installation of the product

#### 3.2.1 To install the charging station



**CAUTION:** Do not make new holes in the charging station plate.



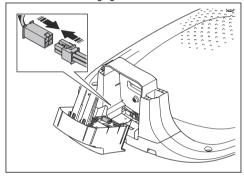
**CAUTION:** Do not put your feet on the baseplate of the charging station.



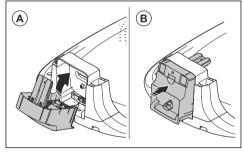
WARNING: Make sure that the plugs of the low-voltage cable and the power supply unit are clean and dry before you connect them.

When connecting the power supply, only use a power outlet that is connected to a residual-current (RCD) device.

- Read and understand the instructions about the charging station. Refer to To examine where to put the charging station on page 14.
- 2. Connect the cable of the charging module to the cable of the charging station.

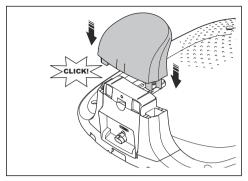


3. Tilt the charging module (A) and push it into position into the charging station (B).

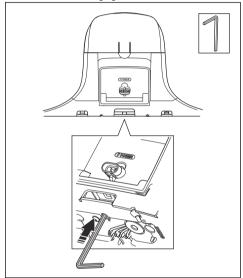


Install the charging station top to the charging station

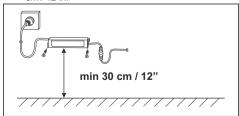
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 If it is necessary to remove the charging module, push the clips from below with the hex key. Remove the charging module.



- 6. Put the charging station in the selected area.
- 7. Connect the low-voltage cable to the charging station and the power supply unit.
- 8. Put the power supply at a minimum height of 30 cm / 12 in.

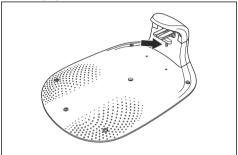


Connect the power supply cable to a 100-240V power outlet.

- Put the low-voltage cable in the ground with stakes or bury the cable.
- 11. Attach the charging station to the ground with the supplied screws.

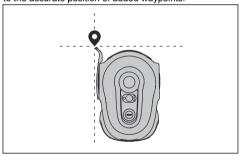
# 3.2.2 To do a visual check of the charging station

 Make sure that the indicator LED lamp on the charging station is on.

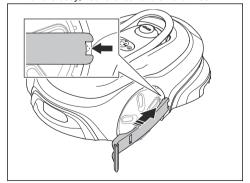


# 3.2.3 To attach and remove the installation aid

When you install map objects, the installation aid points to the accurate position of added waypoints.

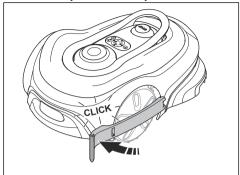


 Put the rear end of the installation aid in position on the body, near the rear of the front wheel.

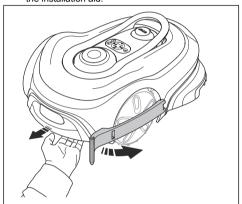


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Push the front end of the installation aid in position on the body. Make sure that you hear a click.



 After you install the map objects, remove the installation aid. Carefully pull the body and remove the installation aid.



# 3.2.4 To download and pair with the GARDENA smart system App

 Install the GARDENA smart Gateway and connect it to the Internet.

**Note:** Read the instructions for the GARDENA smart Gateway for more information about how to connect the GARDENA smart Gateway.

- Download the GARDENA smart system App on your mobile device.
- 3. Register as a user and log on to the app.
- 4. Select *Include product* in the app.
- 5. Select the product category *Robotic lawn mowers* and your model.
- Push the **Connectivity** button on the product to enable the pairing operation mode.
- 7. Follow the instructions in the app.

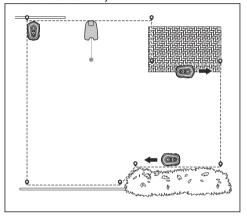
#### 3.2.5 To do map installations

Read and understand the information and the instructions about where to install the virtual boundary, mowing areas and No-go zones. Refer to *Installation of the map on page 15.* 

Use the GARDENA smart system App and operate the product with Remote control when you set waypoints. Follow the instructions in the app and refer to *To operate the product with Remote control on page 20.* 

#### 3.2.5.1 To install the virtual boundary

- Open the GARDENA smart system App and select virtual boundary.
- Operate the product clockwise around the outer border of the installation to set the waypoints for the virtual boundary.



#### 3.2.5.2 To install a mowing area

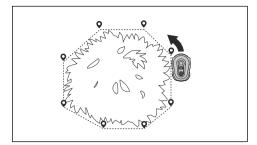
- Open the GARDENA smart system App and select mowing area.
- Use the app to set and adjust waypoints to define the mowing areas where the mower will cut grass.

**Note:** You do not have to use Remote control to install mowing areas.

#### 3.2.5.3 To install a No-go zone

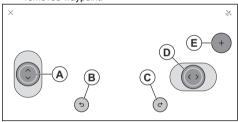
- Open the GARDENA smart system App and go to the map. Select the pen and then select No-go zone.
- Operate the product counterclockwise around the selected area and set the waypoints for the No-go zones

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# 3.2.6 To operate the product with Remote control

- Open the GARDENA smart system App.
- Push the Remote control button on the product.
- Use the up/down button (A) to move the product forward or rearward.
- Use the left/right button (D) to rotate the product to the left or right.
- Use the + button (E) to add a waypoint in the map.
- Use the undo button (B) to remove the latest waypoint.
- Use the **redo** button (C) to restore the latest removed waypoint.



**Note:** Walk 2–3 m / 6.5–9.8 ft. behind the product when you operate the product with Remote control. Use Remote control to operate the product when you install map objects, do not manually lift and move the product between waypoints.

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# 4 Settings

Use the GARDENA smart system App for product settings.

#### 4.1 Schedule settings

The product has a maximum cutting time each day. You can set the operating time of the product in the schedule. The operating time includes cutting, searching and charging. The operating time can be different because of many reasons, for example the layout of the mowing area, the grass growth and age of the battery.



**CAUTION:** Do not cut the lawn more than it is necessary to prevent wear on the product and the lawn.

#### 4.2 SensorControl



SensorControl automatically adjusts the cutting time to the growth of the grass. The product is not permitted to operate more than the schedule settings. The product stops cutting and goes back to the charging station if it senses that the grass is cut. The first operation of the day is set by the schedule settings. The product completes 1 mowing cycle, and then SensorControl selects if the product continues to operate.

There are 3 levels that you can select for the SensorControl. Low, Mid and High. On level Low the product operates for a longer period of time. On level High the product operates for a less period of time.

**Note:** When using *SensorControl*, it is recommended to make as much operating time as possible available for *SensorControl*. Do not restrict the schedule more than necessary. Also, check that the blade disc is clean and that the blades are in good condition.

# 4.3 Trim-to-Edge

The *Trim-to-Edge* function makes it possible for the product to cut near the edges of the lawn. There are 2 settings that you can select for the product:

- Along mowing area edge. The product operates in Trim-to-Edge cutting pattern when it moves along the virtual boundary of the mowing area. This function makes the product cut grass at the edge.
- On collision. The product changes to Trim-to-Edge cutting pattern after it hits an object, for example, a tree. This function makes the product cut grass at the edge near the object.

#### 4.4 Frost sensor

The grass is extra sensitive to wear if the yard is covered with frost. If the *Frost sensor* is activated, the product is not allowed to start to cut the grass if the temperature is below 5° C / 41° F. In the factory setting this function is disabled.

**Note:** The frost sensor is located inside the chassis and there can be a delay compared to the ambient temperature.

#### 4.5 PIN code

When you use the product for the first time you must enter the factory PIN code 1234. You can change the PIN code in the app. The PIN code must have 4 digits. You can use the numbers 1-4 to set a new PIN code. Refer to *To use the keypad on page 10*.

#### 4.6 Factory reset

Use this function to reset all user settings. You can also select to remove the product from the GARDENA smart system App.

**Note:** *PIN code* and *Messages* are not reset when you select *Factory reset*. You can also select to remove the product from the GARDENA smart system App.

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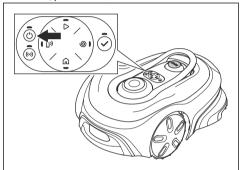
# 5 Operation

#### 5.1 To use the ON/OFF button



**WARNING:** Read and understand the safety chapter before you use the product.

- Push the ON/OFF button for 3 seconds to set the product to ON. Make sure that the LED indicator comes on.
- The product is ON and in power save mode if the LED indicator flashes. To get out of power save mode, push the ON/OFF button for 3 seconds.



Push the **ON/OFF** button for 3 seconds to set the product to OFF. Make sure that the LED indicator goes off.

**Note:** The product cannot be set to OFF when it is in the charging station.

#### 5.1.1 The indicator lamp

The indicator lamps on the keypad show the operating modes of the product, refer to *LED status indicator on the keypad on page 11*.

#### 5.2 To start the product

- 1. Push the **ON/OFF** button for 3 seconds.
- Use the buttons on the keypad to enter the PIN code and then push the OK button. Refer to PIN code on page 21.
- Select an operating mode. Refer to Operating modes on page 22.

**Note:** The first weeks after installation the perceived sound level when cutting the grass may be higher than expected. When the product has cut the grass for some time, the perceived sound level is much lower.

#### 5.3 Operating modes

The following operating modes are available:

- Mowing according to schedule
- Override schedule
- SpotCut
- Park / Schedule
- Park

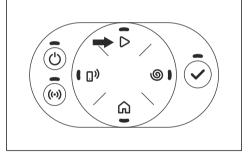
#### 5.3.1 Mowing according to schedule

Mowing according to schedule is the standard operating mode where the product mows and charges automatically.

#### 5.3.1.1 To set the product to mow according to schedule

This can be set in the dashboard in the app or with the keypad on the product:

- 1. Push the STOP button.
- Push the Start button for 1 second.



Push the **OK** button.

#### 5.3.2 Override schedule

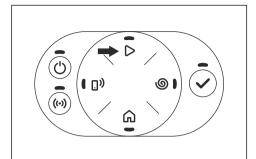
Select *Override schedule* to temporarily override the schedule settings. You can select to override the schedule settings for 3 hours. The product cannot be set to cut more than the maximum cutting time for each day.

#### 5.3.2.1 To override the schedule

This can be set in the dashboard in the app or with the keypad on the product:

- Push the STOP button.
- 2. Push the Start button for 3 seconds.

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Push the **OK** button.

#### 5.3.3 SpotCut

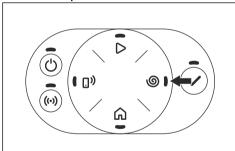
Use the *SpotCut* function to quickly cut an area where the grass has been cut less than in other parts of the yard. You must manually move the product to the selected area.

SpotCut means that the product operates in a spiral pattern in order to cut the grass in the area where it was started. When this is done, the product automatically switches back to *Mowing according to schedule*.

#### 5.3.3.1 To enable SpotCut

This can be set with the keypad on the product:

- 1. Push the STOP button.
- 2. Push the SpotCut button for 1 second.



Push the **OK** button.

#### 5.3.4 Park / Schedule

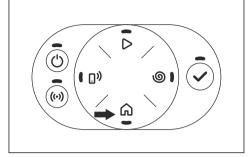
Operating mode *Park / Schedule* means that the product goes back to the charging station where it stays until the next schedule. If the product has operated the maximum cutting time for the day, it will start to operate again the next day. Refer to *Schedule settings on page 21*.

# 5.3.4.1 To park the product and start again with the next schedule

This can be set in the dashboard in the app or with the keypad on the product:

Push the STOP button.

Push the Park button for 1 second.



Push the **OK** button.

**Note:** To change the operating mode of the product, push the **STOP** button and the product will be in idle mode where you can set an operating mode.

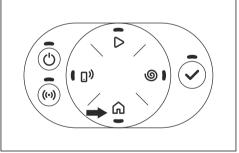
#### 5.3.5 Park

Operating mode *Park* means that the product returns to the charging station where it remains until a different operating mode is selected.

#### 5.3.5.1 To park the product

This can be set in the dashboard in the app or with the keypad on the product:

- Push the STOP button.
- Push the Park button for 3 seconds.



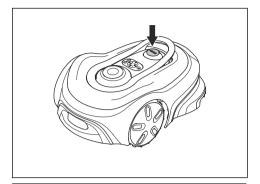
3. Push the **OK** button.

**Note:** To change the operating mode of the product, push the **STOP** button then select an operating mode.

#### 5.4 To stop the product

1. Push the **STOP** button on top of the product.

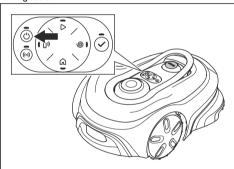
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**Note:** When the **STOP** button is pushed the product will be idle. The product stops and the cutting motor stops.

#### 5.5 To set the product to OFF

- Push the STOP button.
- Push the **ON/OFF** button for 3 seconds to set the product to OFF. Make sure that the LED indicator goes off.



**Note:** The product cannot be set to OFF when it is in the charging station.

### 5.6 To charge the battery

When the product is new or after long-term storage, the battery can be empty. If the battery is empty, you must charge the product. You can use the product after the battery is charged.

**Note:** The charging time is approximately 24 hours if the battery is fully discharged.

 Put the product into the charging station until the charging plates touch the contact plates. Make sure that the product charges in the GARDENA smart system App or on the keypad.

#### 5.7 Cutting height adjustment

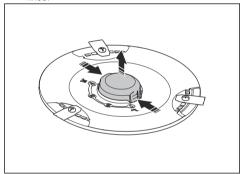
You can select between 4 different cutting height steps. The blade disc has marks for each step. Step 1 is the lowest height and step 4 is the highest height. The factory setting is set to 4.

#### 5.7.1 To adjust the cutting height

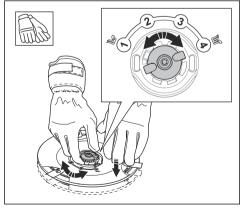


WARNING: Use protective gloves.

- Push the STOP button.
- Push the **ON/OFF** button for 3 seconds to set the product to OFF. Make sure that the LED indicator goes out.
- Put the product with the blade disc up on a soft and clean surface.
- Remove the cover of the cutting height adjustment knob.

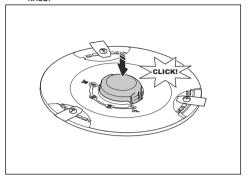


Push the cutting disc down and rotate the cutting height adjustment knob to select a cutting height.



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- 6. Release the cutting disc.
- Attach the cover of the cutting height adjustment knob.



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#### 6 Maintenance

#### 6.1 Introduction - maintenance



**WARNING:** Set the product to OFF before you do maintenance on the product.



WARNING: Use protective gloves.

For better operation and lifetime of the product, make sure to clean the product regularly and replace worn parts.

When the product is new, examine the blade discs and blades each week. If the wear is low, you can increase the interval for the next time you examine the blade discs and blades. Examine the blade discs and the blades more regularly if there is much wear.

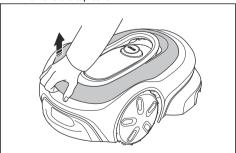
It is important that the blade disc rotates easily and that the edges of the blades are not damaged. The usual lifetime of the blades are 4 to 7 weeks. The conditions that follow can increase or decrease the lifetime of the blades:

- · Operation time and dimension of the mowing area.
- Length and thickness of the grass.
- · Soil, sand and use of fertilizers.
- Objects such as cones, tools, stones and roots in the mowing area.

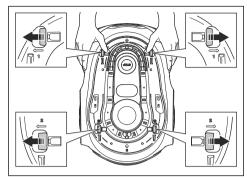
**Note:** The cutting result can be unsatisfactory if the blades are blunt. Refer to *Replacement of the blades on page 27* on how to replace the blades.

## 6.2 To remove the body of the product

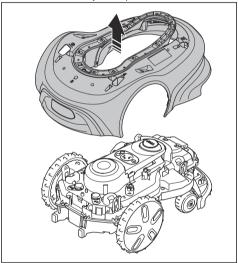
Remove the top cover.



Push the clips that are on the rear side of the body of the product.



- Push the clips that are on the front side of the body of the product.
- 4. Remove the body of the product from the chassis.



#### 6.3 Clean the product



**CAUTION:** Do not use a high-pressure washer to clean the product. Do not use solvents for cleaning.



WARNING: Use protective gloves.

GARDENA recommends to use a special cleaning and maintenance kit. Speak to your GARDENA service for more information.

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#### 6.3.1 To clean the product

1. Remove the body of the product. Refer to *To* remove the body of the product on page 26.



**CAUTION:** Do not remove other parts from the product to clean it.

- 2. Clean the body of the product and the chassis with a brush and running water.
- 3. Install the body of the product and the top cover.

#### 6.3.2 To clean the chassis and blade disc



WARNING: Use protective gloves.

Examine the blade discs and blades weekly.

- 1 Push the **STOP** button
- Push the **ON/OFF** button for 3 seconds to set the product to OFF. Make sure that the LED indicator on the keypad goes out.
- 3. Lift the product onto its side.
- Make sure that the blades are not damaged and that the blades and blade discs can rotate freely.
- Clean the blade discs and chassis with a brush and running water.

#### 6.3.3 To clean the wheels

The product does not operate satisfactorily in slopes if the wheels are blocked with grass.

· Use a soft brush to clean the wheels.

#### 6.3.4 To clean the body of the product

 Use a moist cloth and a weak soap solution to clean the body of the product.

# 6.3.5 To clean the charging plates and contact plates

 Use a fine grade emery cloth to clean the charging plates and the contact plates.

#### 6.3.6 To clean the charging station



WARNING: Disconnect the power supply from the power outlet before maintenance, or when you clean the charging station or power supply.



**CAUTION:** Do not use a high-pressure washer or running water to clean the charging station.

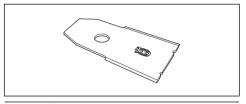
**Note:** The product cannot enter the charging station if there are objects in the charging station. Clean the charging station regularly.

Remove grass, twigs and other objects from the charging station.

#### 6.4 Replacement of the blades



WARNING: GARDENA can only guarantee safety if you use GARDENA original blades with the embossed crowned H-mark logotype.





WARNING: You must replace the screws when you replace the blades. The used screws can wear quickly and make the blade come loose, this can cause serious injury.



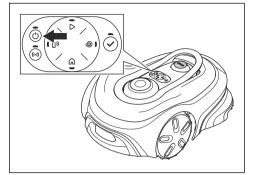
WARNING: Use protective gloves.

Replace worn or damaged blades for a safe operation. Replace the blades regularly for a satisfactory cut result and a low energy use. All 3 blades and screws must be replaced at the same time to get a balanced cutting system

#### 6.4.1 To replace the blades

- Push the STOP button.
- Push the **ON/OFF** button for 3 seconds to set the product to OFF. Make sure that the LED indicator on the keypad goes out.

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- Put the product with the blade disc up on a soft and clean surface.
- Remove the 3 screws and blades for each cutting disc.
- Attach new blades and screws.
- 6. Make sure that the blades can pivot freely.

#### 6.5 Firmware update

GARDENA regularly updates the firmware and the GARDENA smart system App for the product.

# 6.5.1 Firmware update with the GARDENA smart system App

When a new firmware is available, a notification shows in the app where you can select to install the new firmware.

# 6.5.2 Update of the GARDENA smart system App

The GARDENA smart system App is regularly updated. Update the app on App Store or on Google Play to make sure that you have the latest version.

#### 6.6 Battery



**CAUTION:** Charge the battery fully before you put the product into storage. If the battery is not fully charged it can cause damage to the battery.

If the operating time of the product is shorter than usual between charges, this means that the battery is at the end of its life cycle. Replace the battery to extend the operating time.

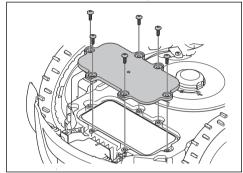
**Note:** The battery life is related to the length of the season and how many hours a day the product operates. A long season or many hours of operation a day means that the battery must be replaced more regularly.

#### 6.6.1 To remove and install the battery

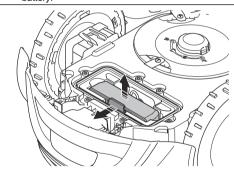


**CAUTION:** If the battery housing is damaged, do not install or use the battery. Refer to *Disposal on page 37*.

- Push the **ON/OFF** button for 3 seconds to set the product to OFF. Make sure that the LED indicator goes out.
- Put the product with the blade disc up on a soft and clean surface.
- 3. Remove the 6 screws on the battery cover with a Torx 20 to remove the battery cover.

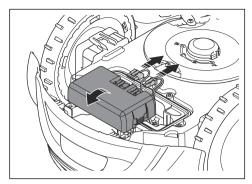


 Push the clips that holds the battery and lift up the battery.



Disconnect the 2 cables from the battery.

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- Remove the battery.
- 7. Install the battery in the opposite sequence. Install the screws with a tightening torque of 1.8 Nm.

#### 6.7 Winter service

Take your product to your GARDENA service for service prior to winter storage. Regular winter service will maintain the product in good condition and create the best conditions for a new season without any disruptions.

Service usually includes the following:

- Thorough cleaning of the body, the chassis, the blade disc and all other moving parts.
- Testing of the product's function and components.
- Checking and, if required, replacing wear items such as blades and bearings.
- Testing the product's battery capacity as well as a recommendation to replace battery if necessary.
- If new firmware is available, the product is updated.

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# 7 Troubleshooting

# 7.1 Messages

The messages in the table below are shown in the app. Speak to your GARDENA servicing dealer if the same message shows frequently.

Message	Cause	Action
Wheel motor blocked, left/ right	Grass or other object around the drive wheel.	Remove grass or other object.
Cutting system blocked	Grass or other object around the blade disc.	Remove grass or other object.
	The blade disc is in water.	Move the product and prevent the collection of water in the mowing area.
	The grass is too high.	Cut the grass before you install the product. Make sure that the grass is maximum 4 cm / 1.2 in.
Trapped	The product is behind a number of obstacles in a small area.	Examine the area and remove the obstacles that prevent the product to move away from this location.
Outside work area	The slope is too steep in the mowing area near the virtual boundary. As a result, the product moves outside the working area.	Make sure that the mowing area is installed correctly. Refer to <i>To do map installations on page 19.</i>
	Interference from metal objects such as fences, reinforced steel or buried cables near the charging station.	Change the position of the charging station.
Empty battery	The product cannot find the charging station.	The product has no accurate position. Examine why the satellite coverage is not good in this area. Refer to <i>Installation of the map on page 15</i> .
		There is an obstacle that prevents the product to find the charging station.
	The battery is at the end of its life cycle.	Replace the battery. Refer to Battery on page 28.
	The antenna of the charging station is damaged.	If the LED indicator on the charging station flashed red, the antenna of the charging station is damaged. Speak to your approved servicing dealer.
Slipped	The product has got caught in something and has been slipping.	Free the product and correct the cause of problem. If it is because of wet grass, wait until the lawn is dry before you use the product.
	The installation includes a steep slope.	Steep slopes must be isolated. Refer to <i>To install the map objects in a slope on page 17.</i>
Wheel motor overloaded, left/right	Grass or other object around the drive wheel.	Remove grass or object from the drive wheel.

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Message	Cause	Action
Collision/Collision sensor problem	The front wheels on the product are blocked.	Free the product and correct the cause of problem. If the problem stays speak to your GARDENA service.
Charging station blocked	The contact between the charging plates on the product and the contact plates on the charging station is not good. The product has made a number of tries to charge.	Use a fine grade emery cloth to clean the charging plates and the contact plates. Put the product in the charging station and make sure that the charging plates and contact plates are connected.
	An object prevents the product to enter the charging station.	Remove the object.
	The charging station is tilted or bent.	Put the baseplate on level ground.
Stuck in charging station	An object prevents the product to move out from the charging station.	Remove the object.
Upside down	The product is in an incorrect position, the product is tilting too much or is upside down.	Put the product in the correct position.
Lifted	The lift sensor has been enabled because the product has been lifted.	Make sure that the product body can move freely around its chassis. Remove or create an island around objects that can cause the chassis to be lifted. If the problem stays speak to your GARDENA service.
Wheel drive problem, right/ left	Grass or other object around the drive wheel.	Clean the wheels and around the wheels.
Electronic problem	Temporary electronic or firmware related	Restart the product. If the problem stays
Loop sensor problem, front/rear	problem in the product.	speak to your GARDENA service.
Tilt sensor problem		
Temporary problem		
Invalid sub-device combi- nation		
Temporary battery prob- lem		
Safety function faulty		
STOP button problem		
Invalid system configura- tion		
Lift sensor problem		
Charging system problem	There is corrosion or dirt on the charging plates and contact plates.	Restart the product. Clean the charging plates on the product and the contact plates on the charging station.
	Temporary electronic or firmware problem in the product.	Restart the product. If the problem stays, speak to your approved servicing dealer.

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Message	Cause	Action
Battery problem	Temporary battery or firmware related problem in the product.	Restart the product. If the problem stays speak to your GARDENA service.
	Incorrect type of battery.	Use original batteries recommended by the manufacturer.
Battery temperature out- side limits	The temperature in the battery is too high or too low to start operation.	The temperature in the battery is not in its operating limits and charging/mowing has stopped. Charging/mowing will start when the temperature is back within the operating limits of the battery.
Charging current too high	Incorrect or damaged power supply unit.	Restart the product. If the problem stays speak to your GARDENA service.
Message	Cause	Action
No loop signal	The power supply or low-voltage cable are not connected.	If the LED status indicator on the charging station is not lit, it shows that there is no power. Examine the power outlet connection and the residual-current device. Make sure that the low-voltage cable is connected to the charging station.
	The power supply or low-voltage cable are damaged.	Replace the power supply or low-voltage cable.
	Problem with the pairing between the product and the charging station.	Redo the installation of the charging station.
	Interference from metal objects such as fences, reinforcement steel or buried cables near the charging station.	Change the position of the charging station.
Mower tilted	The product is tilted more than the maximum angle.	Move the product to a level area.
Slope too steep	The product stopped because the slope is too steep.	Change the installation to exclude the steep part.
Cutting system imbalance	The product senses vibrations in the blade disc.	Examine that the blades and screws are not damaged or worn. Make sure that all blades are correctly installed and that there is only one blade attached in each position on the blade disc.
No power in charging station	The power supply unit is incorrect or damaged.	Examine the power supply unit. Replace the power supply unit if it is necessary.

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The product cannot charge because there

is no contact between the contact plates

The way back to the charging station is

The product cannot reach the destination

because there is a No-go zone blocking

Find and correct the cause of the power

Make sure that the charging plates and

charging plates and the contact plates.

Remove the obstacle.

the contact plates are in contact. Clean the

Edit or remove the No-go zone or make a

new installation of the mowing area.

failure.

Power failure.

Destination not reachable

and the charging plates.

blocked by an obstacle.

the way to the mowing area.

Message	Cause	Action
Destination blocked	The way of the destination is blocked by an obstacle.	Remove the obstacle that blocks the way to the destination.
	The way of the destination is blocked by a No-go zone.	Edit or remove the No-go zone or make a new installation of the mowing area.
Battery needs replacement	The battery state of health is low.	Replace the battery. Speak to your authorized service technician.
Battery near end of life	The battery state of health is critically low.	Replace the battery. Speak to your authorized service technician.
Invalid firmware configura- tion	The firmware in the product is invalid.	Put the product in the charging station and update the firmware via FOTA. If the problem remains, speak to your authorized service technician.
Edge cutting disc blocked	The edge cutting system is blocked by grass or other objects.	Examine the edge cutting system and remove the grass or other objects.
Imbalanced edge cutting disc The product senses vibrations in the edge blade disc.		Examine that the blades and screws are not damaged or worn. Make sure that all blades are correctly installed and that there is only one blade attached in each position on the blade disc.
Position too inaccurate	Weak satellite signal to the product.	The satellite signal is temporarily weak. The product will start to operate when the satellite signals are good.
		Examine if there is an object between the product and the sky that causes interference with the satellite signal. Remove the object or do a new installation to exclude these parts from the installation. Refer to <i>To do map installations on page 19.</i>
Map invalid	The map object file is incorrect.	Do a check of the map in the app. Adjust the map and save it.
		Delete the map and do a new installation.
Work area tampered The charging station was moved.		Do a new installation of the charging station in the app.
No correction data availa- ble	The product is not connected to the smart Gateway.	Make sure that the smart Gateway is installed correctly, set to ON and connected to the Wi-Fi.
		If the problem occurs frequently when the product is at the same position, change the position of the smart Gateway to improve the connection signal between the product and the smart Gateway.

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# 7.2 Indicator lamp in the charging station

The indicator lamp in the charging station must show a solid or flashing green light for a correct installation. Speak to your GARDENA service center for more information.

Light	Cause	Action
Green solid light	The signals are good.	The product operates correctly.
Green flashing light	Error in the circuit board or incorrect power supply in the charging station.	Only service personnel can correct the error. Speak to your GARDENA service center.
Blue flashing light	The charging station has power, but the installation is not complete.	Use the app to complete the installation.
Red flashing light	Problem with the baseplate of the charging station.	Make sure that the cable from the charging module is connected to the cable from the charging station. If the problem stays, speak to your GARDENA service center.
Red solid light	Error in the circuit board or incorrect power supply in the charging station.	Only service personnel can correct the error. Speak to your GARDENA service center.

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# 7.3 Symptoms

If the product does not operate as usual, follow the symptoms table below. Speak to your GARDENA service if you cannot find the cause for the fault.

Symptoms	Cause	Action
The product is at the docking point for several minutes.  The product stays at the docking point until it receives satellite signals for an accurate position before it starts to operate.		Usual operation for the product.
The product has difficulty docking.	The charging station is not on a level surface.	Put the charging station on a level surface. Refer to <i>To install the charging station on page 17.</i>
The product operates at the wrong time.	The start and stop times for operating are incorrect.	Change the schedule settings. Refer to Schedule settings on page 21.
The product vibrates.	The cutting system is not in balance because of damaged blades.	Examine the blades and screws and replace them if necessary. Refer to Replacement of the blades on page 27.
	The cutting system is not in balance because of too many blades in the same position.	Do a check that only one blade is attached to each screw.
	Different thickness of blades are installed on the product.	Do a check if the blades are of different thickness and replace if necessary.
ates, but the blade tion, or is moving to the starting point. disc does not rotate when the		Usual operation for the product. The blade disc does not rotate when the product is searching for the charging station.
The product operates for shorter periods than usual between	Grass or other object causes a blockage to the blade disc.	Remove and clean the blade disc. Refer to To clean the chassis and blade disc on page 27.
charges.	The battery is at the end of its life cycle.	Replace the battery. Refer to Battery on page 28.
	Blunt blades. More energy is necessary when cutting the grass.	Replace the blades. Refer to Replacement of the blades on page 27.
	The grass is thick and long. This can increase power use.	Use the override schedule. Or, add more time to the schedule.
Mowing and charging times are shorter than usual.	The battery is at the end of its life cycle.	Replace the battery. Refer to Battery on page 28.
The product is parked for hours in	The product has operated the maximum cutting time for the day.	Usual operation for the product. Refer to Schedule settings on page 21.
the charging station.	The <b>STOP</b> button has been pushed.	Enter the PIN code and push the <b>OK</b> button. Push the <b>Start</b> button.
	Parking mode is enabled.	Change the operating mode. Refer to <i>Operating modes on page 22</i> .
	The product does not operate if the battery temperature is too high or too low.	Make sure that the charging station is put in an area with protection from the sun.

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Symptoms Cause		Action
Uneven mowing results.	The product operates for a small number of hours per day.	Increase the cutting time. Refer to Schedule settings on page 21.
	The mowing area is too large.	Decrease the size of the mowing area or extend the schedule. Refer to Schedule settings on page 21.
	Blunt blades.	Replace all the blades. Refer to Replacement of the blades on page 27.
	Long grass in relation to the set cutting height.	Increase the cutting height and then lower it when the grass is shorter.
	Collection of grass by the blade disc or around the motor shaft.	Remove the collection of grass and clean the product. Refer to <i>Clean the product on page 26.</i>

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# 8 Transportation, storage and disposal

#### 8.1 Transportation

The supplied Li-ion batteries obey the Dangerous Goods Legislation requirements.

- · Obey all applicable national regulations.
- Obey the special requirement on package and labels for commercial transportations, including by third parties and forwarding agents.

#### 8.2 Storage

- Fully charge the product. Refer to To charge the battery on page 24.
- Set the product to OFF. Refer to To set the product to OFF on page 24.
- Clean the product. Refer to Clean the product on page 26.
- · Keep the product in a dry, frost free space.
- Keep the product with all wheels on level ground.
- If you keep the charging station indoors, disconnect and remove the power supply.

**Note:** If you keep the charging station outdoors, do not disconnect the power supply.

 Speak to your GARDENA service for information about available storage accessories for your product.

### 8.3 Disposal

The symbol means that the product is not domestic waste. Recycle it through your local collection system for electrical and electronic equipment. This contributes to proper end of life waste management. Contact local authorities, domestic waste services, your dealer or retailer for information. Incorrect disposal may have potential negative effects on the environment and human health, due to the potential presence of hazardous substances.



**Note:** The symbol shows on the product or package of the product.

# 9 Technical data

#### 9.1 Technical data

Dimensions	smart SILENO free
Length, cm	63
Width, cm	43
Height, cm	26
Weight, kg	10.8

Electrical system	smart SILENO free
Battery, Lithium-Ion 18.0 V/5.0 Ah Art.No	536 81 24-01, 536 81 24-02, 536 81 24-03, 536 81 24-04
Power supply (28V DC), V AC	100-240
Low-voltage cable length, m	20
Mean energy consumption at maximum use	12 kWh/month in a 1500 m <sup>2</sup> mowing area
Charge current, A DC	2.2
Type of Power Supply Unit <sup>3</sup>	FW7438/28/D/XX/Y
Average mowing time, min	140
Average charging time, min	100

Boundary wire antenna	smart SILENO free
Operating Frequency Band, Hz	100-80000
Maximum magnetic field <sup>4</sup> , dBuA/m	82
Maximum Radio-frequency power <sup>5</sup> , mW @60m	<25

Sound data <sup>6</sup>	smart SILENO free
Sound level, perceived, dB (A)	58
Measured sound power noise level, dB (A)	57
Noise emissions uncertainties K <sub>WA</sub> , dB (A)	1
Sound pressure noise level at the operator's ear <sup>7</sup> , dB (A)	49

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<sup>3</sup> XX, YY can be any alphanumeric characters or blank for marketing purpose only, no technical differences. The "XX" specifies the country version, such as JP, and the "Y" specifies the product revision, such as V.

<sup>&</sup>lt;sup>4</sup> Measured according to EN 303 447.

<sup>&</sup>lt;sup>5</sup> Maximum active output power to antennas in the frequency band in which the radio equipment operates.

<sup>&</sup>lt;sup>6</sup> Determined according to Directive 2006/42/EC and standard EN 50636-2-107. Except Sound level, perceived that is measured according to ISO 11094:1991.

Sound pressure noise uncertainties K<sub>pA</sub>, 2-4 dB (A)

Mowing	smart SILENO free
Cutting system	2 discs with 3 pivoting blades
Cutting motor speed, rpm	2670 for edge disc / 2300 for main disc
Power consumption during cutting, W +/- 20 %	25
Cutting height, cm	2.5-4.5
Cutting width, cm	22
Narrowest possible passage, cm	100
Maximum slope for the installation %	30
Maximum slope at mowing area edge %	15

IP-code	smart SILENO free
Product	IPX5
Charging station	IPX5
Power supply	IP44

Bluetooth®	smart SILENO free
Operating frequency band, MHz	2400 - 2484
Maximum transmitted power, dBm	8

Internal SRD (short range device)	
Operating frequency band, MHz	863-870
Maximum transmitted power, dBm	14
Free field radio range, approx. m	100

Husqvarna AB does not guarantee full compatibility between the product and other types of wireless systems such as remote controls, radio transmitters, hearing loops, underground electric animal fencing or similar.

The products are made in England or the Czech Republic. See information on the rating plate. Refer to *Introduction on page 7*.

### 9.2 Registered trademarks

The *Bluetooth®* word mark and logos are registered trademarks owned by *Bluetooth SIG, inc.* and any use of such marks by GARDENA is under license.

App Store is a trademark of Apple Inc.

Google Play is a trademark of Google LLC.

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# 10 Declaration of Conformity

### 10.1 Original EU Declaration of Conformity

#### **EU Declaration of Conformity**

EU Declaration of Conformity ROB-P14E-25-2E

We, Husqvarna AB, SE 561 82 Huskvarna, SWEDEN, Tel. +46 36 146500 declare on our sole responsibility that the product:

Description	Battery powered robotic lawn mower
Brand	GARDENA
Type / Model	smart SILENO free
Identification	Serial numbers dating from 2025 week 38

is in conformity with the following EU directives and regulations as amended:

Directive/Regulation	Description
2006/42/EC	"relating to machinery"
2014/53/EU	"relating to radio equipment"
2011/65/EU	"relating to restriction of hazardous substances"

and that the following standards and/or technical specifications are applied;

IEC 60335-1:2010+A1:2013+A2:2016 (EN 60335-1:2012+AC:2014+A11:2014+A13:2017+A15:2021)

IEC 60335-2-107:2017+A1:2020+A2:2021 (EN 50636-2-107:2015+A1:2018+A2:2020+A3:2021)

EN ISO 12100:2010

EN IEC 63000:2018

EN 55014-1:2017+A11:2020 and EN IEC 55014-1:2021

EN 55014-2:1997+A1:2001+A2:2008+AC:1997 and EN IEC 55014-2:2021

ETSI EN 301 489-1 V1.9.2 and ETSI EN 301 489-1 V2.2.3

ETSI EN 301 489-3 V2.3.2

ETSI EN 301 489-17 V3.2.4

ETSI EN 303 447 V1.3.1

ETSI EN 300 328 V2.2.2

ETSI EN 303 413 V1.2.1

ETSI EN 301 489-19 V2.2.1

ETSI EN 300 220-1 V3.1.1

ETSI EN 300 220-2 V3.1.1 and ETSI EN 300 220-2 V3.2.1 and Draft ETSI EN 300 220-2 v3.2.2

ETSI EN 303 413 V1.2.1 CEN EN 18031-1:2024

CEN EN 18031-2:2024

and for the models equipped with radar accessory the following additional standards apply:

Draft ETSI EN 305 550 V2.1.0 ETSI EN 305 550-1 v1.2.1 ETSI EN 305 550-2 v1.2.1

Lars Roos (Jun 27, 2020 13:58 GMT+2)

Lars Roos Huskvarna

R&D Director, Robotics & Smart Business Unit Husqvarna AB, Gardena Division Responsible for technical documentation



### 10.2 EU Declaration of Conformity

We, Husqvarna AB, SE 561 82 Huskvarna, SWEDEN, Tel. +46 36 146500 declare on our sole responsibility that the product:

Description	Battery powered robotic lawn mower
Brand	GARDENA
Type/Model	GARDENA
	smart SILENO free
Identification	Serial numbers dating from 2025 week 38

is in conformity with the following EU directives and regulations as amended:

Directive/Regulation	Description
2006/42/EC	"Relating to machinery"
2014/53/EU	"Relating to radio equipment"
2011/65/EU	"Restriction of use of certain hazardous substances"

and that the following standards and/or technical specifications are applied;

- IEC 60335-1:2010+A1:2013+A2:2016 (EN 60335-1:2012+AC:2014+A11:2014+A13:2017+A1 5:2021)
- IEC 60335-2-107:2017+A1:2020+A2:2021 (EN 50636-2-107:2015+A1:2018+A2:2020+A3:2021)
- EN ISO 12100:2010
- EN IEC 63000:2018
- EN 55014-1:2017+A11:2020 and EN IEC 55014-1:2021
- EN 55014-2:1997+A1:2001+A2:2008+AC:1997 and EN IEC 55014-2:2021
- ETSI EN 301 489-1 V1.9.2 and ETSI EN 301 489-1 V2.2.3
- ETSI EN 301 489-3 V2.3.2
- ETSI EN 301 489-17 V3.2.4
- ETSI EN 303 447 V1.3.1
- ETSI EN 300 328 V2.2.2
- ETSI EN 303 413 V1.2.1
- ETSI EN 301 489-19 V2.2.1
- ETSI EN 300 220-1 V3.1.1
- ETSI EN 300 220-2 V3.1.1 and ETSI EN 300 220-2 V3.2.1 and Draft ETSI EN 300 220-2 v3.2.2
- ETSI EN 303 413 V1.2.1
- CEN EN 18031-1:2024
- CEN EN 18031-2:2024

and for the models equipped with radar accessory the following additional standards apply:

- Draft ETSI EN 305 550 V2.1.0
- ETSI EN 305 550-1 v1.2.1

ETSI EN 305 550-2 v1.2.1

Lars Roos

Huskvarna

R&D Director, Robotics & Smart Business Unit. Husqvarna AB, Gardena Division. Responsible for technical documentation.



2516 - 002 - 02.09.2025

# 11 Applicable to UK market

### 11.1 Original UK Declaration of Conformity

#### **Declaration of Conformity**

UK Declaration of Conformity ROB-P14E-25-2U

We, Husqvarna AB, SE 561 82 Huskvarna, SWEDEN, Tel. +46 36 146500 declare on our sole responsibility that the product:

Description	Battery powered robotic lawn mower
Brand	GARDENA
Type / Model	smart SILENO free
Identification	Serial numbers dating from 2025 week 38

is in conformity with the following UK directives and regulations as amended:

Regulation (s)

The Supply of Machinery (Safety) Regulations 2008

The Radio Equipment Regulations 2017

The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

and that the following standards and/or technical specifications are applied;

IEC 60335-1:2010+A1:2013+A2:2016 (EN 60335-1:2012+AC:2014+A11:2014+A13:2017+A15:2021)

IEC 60335-2-107:2017+A1:2020+A2:2021 (EN 50636-2-107:2015+A1:2018+A2:2020+A3:2021)

EN ISO 12100:2010

EN IEC 63000:2018

EN 55014-1:2017+A11:2020 and EN IEC 55014-1:2021

EN 55014-2:1997+A1:2001+A2:2008+AC:1997 and EN IEC 55014-2:2021

ETSI EN 301 489-1 V1.9.2 and ETSI EN 301 489-1 V2.2.3

ETSI EN 301 489-3 V2.3.2

ETSI EN 301 489-17 V3.2.4

ETSI EN 303 447 V1.3.1

ETSI EN 300 328 V2.2.2

ETSI EN 303 413 V1.2.1 ETSI EN 301 489-19 V2.2.1

ETSI EN 301 409-19 V2.2.1

ETSI EN 300 220-1 V3.1.1

ETSI EN 300 220-2 V3.1.1 and ETSI EN 300 220-2 V3.2.1 and Draft ETSI EN 300 220-2 v3.2.2

ETSI EN 303 413 V1.2.1 CEN EN 18031-1:2024

CEN EN 18031-2:2024

and for the models equipped with radar accessory the following additional standards apply:

Draft ETSI EN 305 550 V2.1.0 ETSI EN 305 550-1 v1.2.1

ETSI EN 305 550-2 v1.2.1

Lars Roos (Jun 27, 2025 14:02 GMT+2)

Lars Roos Huskvarna

R&D Director, Robotics & Smart Business Unit

Husqvarna AB, Gardena Division Responsible for technical documentation CA

UK Importer: Husqvarna UK Ltd Preston Road, Co. Durham DL5 6UP

### 11.2 Statement of compliance

#### Statement of compliance

PSTI-ROB-GardenaP14-24-1U

We, Husqvarna AB, SE 561 82 Huskvarna, SWEDEN, Tel. +46 36 146500 declare on our sole responsibility that the product:

Description	Robotic lawn mower
Brand	Gardena
Type / Model	Gardena SILENO pro, SILENO max, SILENO free
Identification	Serial numbers dating from 2024 week 40
Support period	At least 3 years from the manufacturing date.

#### complies fully with the following UK regulations:

Description

The Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulations 2023, Schedule 2.

ETSI EN 303 645 V2.1.1 (2020-06)

UK Importer: Husqvarna UK Ltd Preston Road, Co. Durham DL5 6UP

Lars Roos (Jun 27, 2024 12:34 GMT

Lars Roos

Director R&D Robotics & Smart Business Unit Husqvarna AB, Gardena Division Responsible for technical documentation

2516 - 002 - 02.09.2025 Applicable to UK market -



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GARDENA and other product and feature names are trademarks of the Husqvarna Group.

All measurements quoted are approximate.

www.gardena.com

Original instructions





2025-09-16