



Operator's manual
HUSQVARNA AUTOMOWER®
520/550



EN, English

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. However, EU requirements allows this appliance to be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
 - The product must only be used with the equipment recommended by Husqvarna. All other types of use are incorrect.
 - Do not use the product when persons, especially children, or animals are in the work area.
 - Warning signs must be put around the work 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 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 to it is defective.
 - If an injury or accident occur, get medical aid.
 - Do not put power supply cable and extension cable in the work 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 47*. 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 Husqvarna. Product safety cannot be guaranteed with other than original batteries. Do not use non-rechargeable batteries.
 - Follow the installation instructions that includes to specify the work area, refer to *Installation on page 13*.
 - Follow the instructions about to start and operate the product, refer to *Operation on page 29*.
 - If there is a risk of thunderstorm, Husqvarna recommends that the power supply and all the wires to the charging station are disconnected to decrease the risk of damage to electrical components. Connect the power supply and all the wires again if there is no longer a risk of thunderstorm. It is important that all wires are connected correctly.
 - Follow the maintenance instructions and if necessary use Husqvarna original spare parts, refer to *Maintenance on page 31*.
 - For technical data such as weight, dimensions and noise emission values, refer to *Technical data on page 48*.
 - 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.
- Husqvarna does not guarantee full compatibility between the product and other types of wireless systems such as remote controls, radio transmitters or equivalent.
- The built-in alarm is very loud. Be careful, especially if the product is handled indoors.
- 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, 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.
- 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 work area. Refer to *To set the product to OFF*

on page 30. Husqvarna recommends to set the product to operate when the work area has no activity. The product can cause injury to animals at night in work area, for example hedgehogs. Refer to *Schedule on page 22.*

- Make sure that there are no objects such as stones, branches, tools or toys on the lawn. The blades can be damaged if it hits an object.
- Do not lift the product or move it when it is set to ON.
- Do not 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 30.*
- 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 on page 22.*
- Do not let the product operate when there is standing water in the work area. 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.

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.

1.7 To lift and move the product

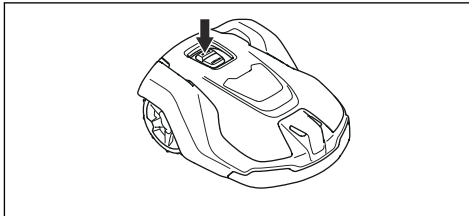


WARNING: The product must be set to OFF before you lift the product. The product is disabled when the **Main switch** is set to the 0 position.

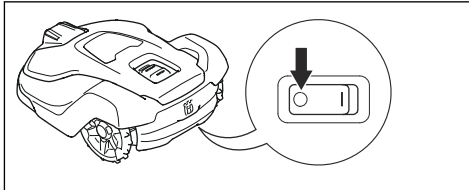


CAUTION: Do not lift the product when it is parked in the charging station. It can cause damage to the charging station and/or the product. Push the **STOP** button and pull the product out of the charging station before you lift it.

1. Push the **STOP** button to stop the product.



2. Set the **Main switch** to the 0 position.



3. Lift the product by the handle with the blade disc away from your body.



2 Introduction

Serial number:
Product number:
PIN code:

The serial number and the product number are on the product rating plate and on the product carton.

- Register your product on www.husqvarna.com. Enter the serial number of the product, the product number and the date of purchase to register your product.

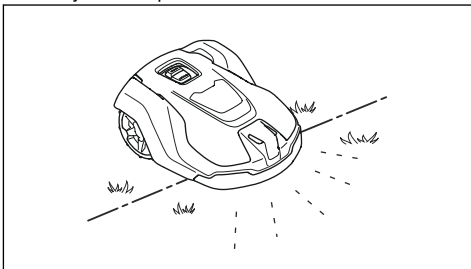
2.1 Support

For support about the product, speak to your Husqvarna servicing dealer.

2.2 Product description

Note: Husqvarna regularly updates the appearance and function of the products. Refer to *Support on page 6*.

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 boundary wire and the guide wire controls the movement of the product within the work area. Sensors in the product senses when it is approaching the boundary wire. The front of the product always passes the boundary wire by a specific distance before the product turns around. When the product hits an obstacle or approaches the boundary wire the product selects a new direction.



The operator selects the operation settings in the Automower® Connect app. The app shows the selected and possible operation settings, and the operation mode of the product.

2.2.1 Mowing technique

The frequent cutting technique improves the grass quality and decreases the use of fertilizers. Collection of grass is not necessary.

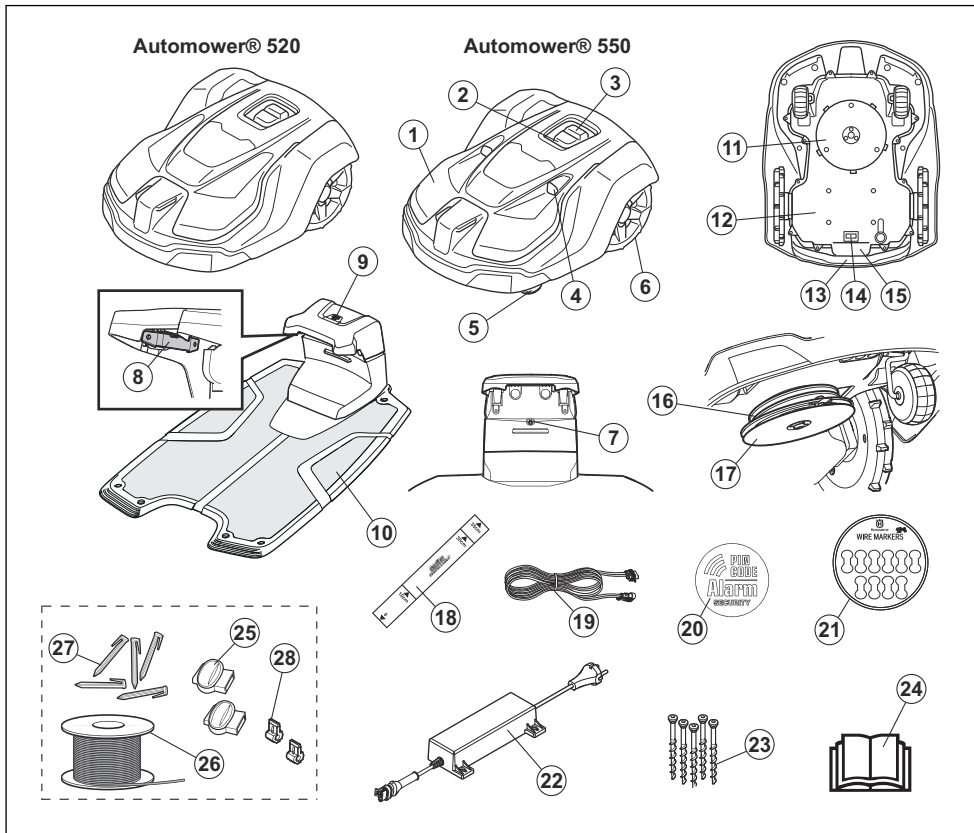
2.2.2 Find the charging station

The product operates until the battery state of charge is low, then it starts to go to the charging station. The product has 3 search methods to find the charging station. Refer to *To find the charging station on page 24*.

2.2.3 Automower® Connect

Automower® Connect is a mobile application that makes it possible to select the operation settings remotely. Refer to *Automower® Connect (Bluetooth® only) on page 28*.

2.3 Product overview



- | | |
|--|---|
| 1. Body | 14. Main switch |
| 2. LED indicator lamp of the product | 15. Rating plate (including product identification code) |
| 3. STOP/START button | 16. Blade disc |
| 4. Ultrasonic sensors | 17. Skid plate |
| 5. Front wheels | 18. Measurement gauge |
| 6. Rear wheels | 19. Low-voltage cable |
| 7. LED indicator lamp of the charging station | 20. Alarm decal |
| 8. Contact plates | 21. Cable markers |
| 9. Park button | 22. Power supply ¹ |
| 10. Charging station | 23. Screws to attach the charging station |
| 11. Cutting system | 24. Operator's manual and Quick Guide |
| 12. Chassis box with electronics, battery and motors | 25. Couplers for the loop wire ² |
| 13. Handle | 26. Loop wire for boundary wire and guide wire ³ |

¹ The appearance can be different for different markets.

² Is a part of the Installation kit which is purchased separately.

³ Refer to note 2.

27. Stakes⁴

28. Connector for the loop wire⁵

2.4 Symbols on the product

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



WARNING: Read the user instructions before operating the product.



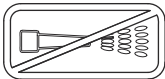
WARNING: Disable the product before working on or lifting the product.



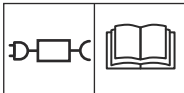
WARNING: Keep a safe distance from the product when operating. Keep your hands and feet away from the rotating blades.



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



Do not use a high-pressure washer or even running water to clean the product.



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



This product complies with the applicable EU Directives.



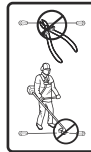
This product complies with the applicable UK Directives.



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 chassis contains components which are sensitive to electrostatic discharge (ESD). The chassis must also be resealed in a professional manner. For these reasons the chassis shall only be opened by authorized service technicians. A broken seal can result in the entire or parts of the guarantee no longer being valid.



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

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

2.5 Symbols in Automower® Connect



The schedule menu is used to set when the product cuts the lawn.



The cutting height menu allows the operator to set the cutting height of the product.



The operation menu is used for manual settings for the operation.



The installation menu is used for manual settings for the installation.



The accessories menu is used for settings made for the accessories.



The settings menu is used to set the general product settings. (Only available for Bluetooth® short-range connectivity)



The security menu lets the operator select between 3 security levels. (Only available for Bluetooth® short-range connectivity)

⁴ Refer to note 2.

⁵ Refer to note 2.



Automower® Connect is where the operator enables and disables the Automower® Connect module on the product. (Only available for Bluetooth® short-range connectivity)

2.6 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.



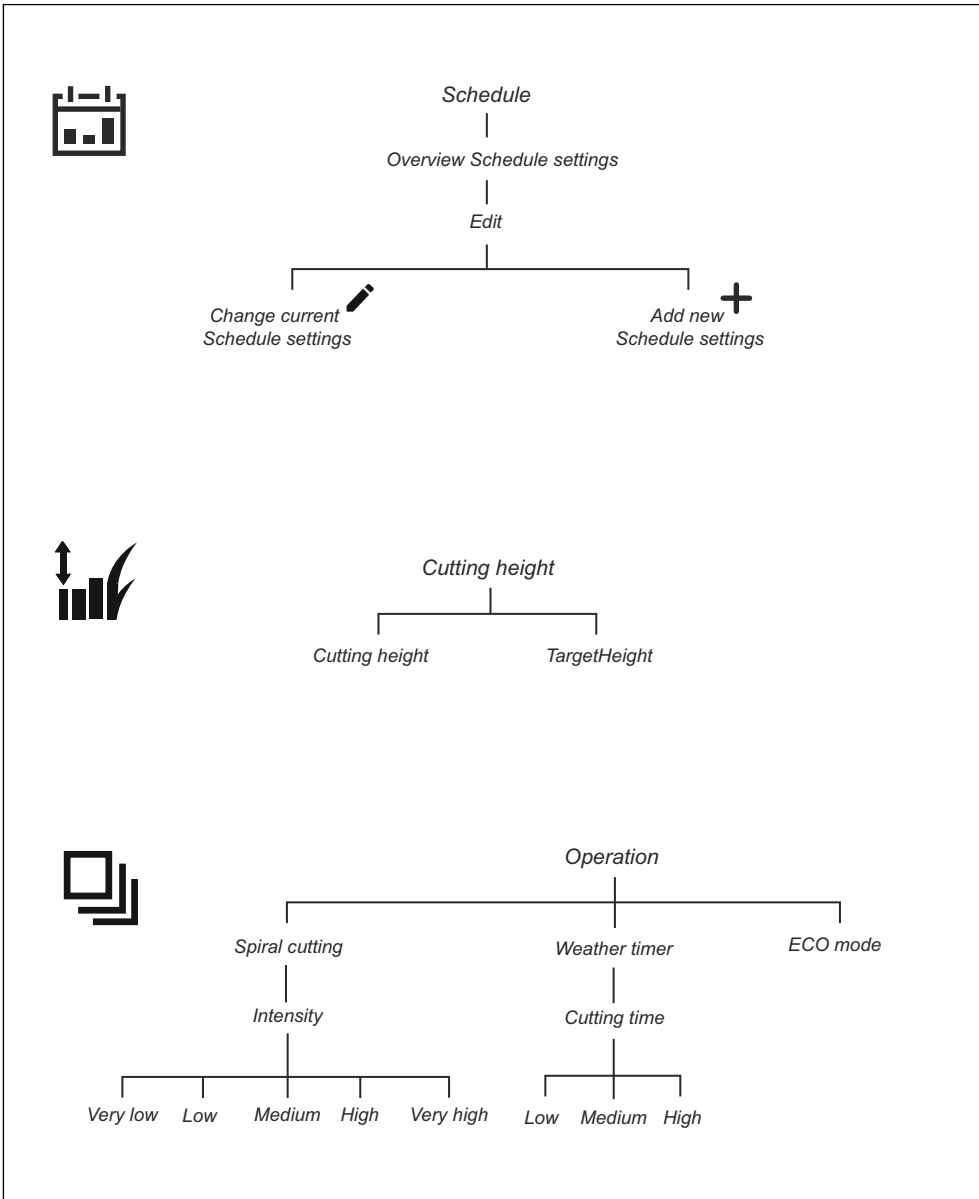
Do not immerse the battery into water.

2.7 General manual instructions

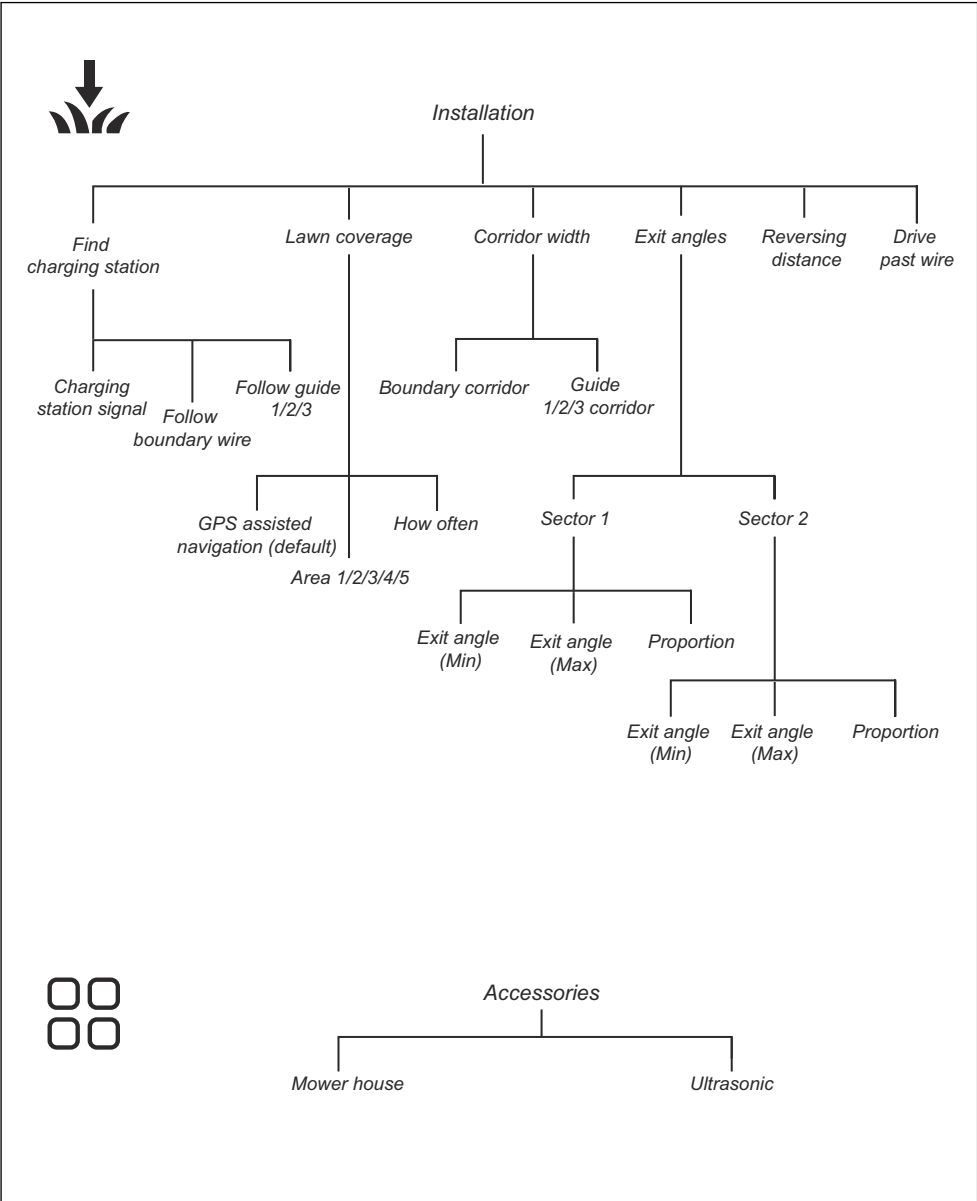
The following system is used in the Operator's Manual to make it easier to use:

- Text written in *italics* is a text that is in the Automower® Connect app, or is a reference to another section in the Operator's manual.
- Text written in **bold** is one of the buttons on the product or in Automower® Connect.

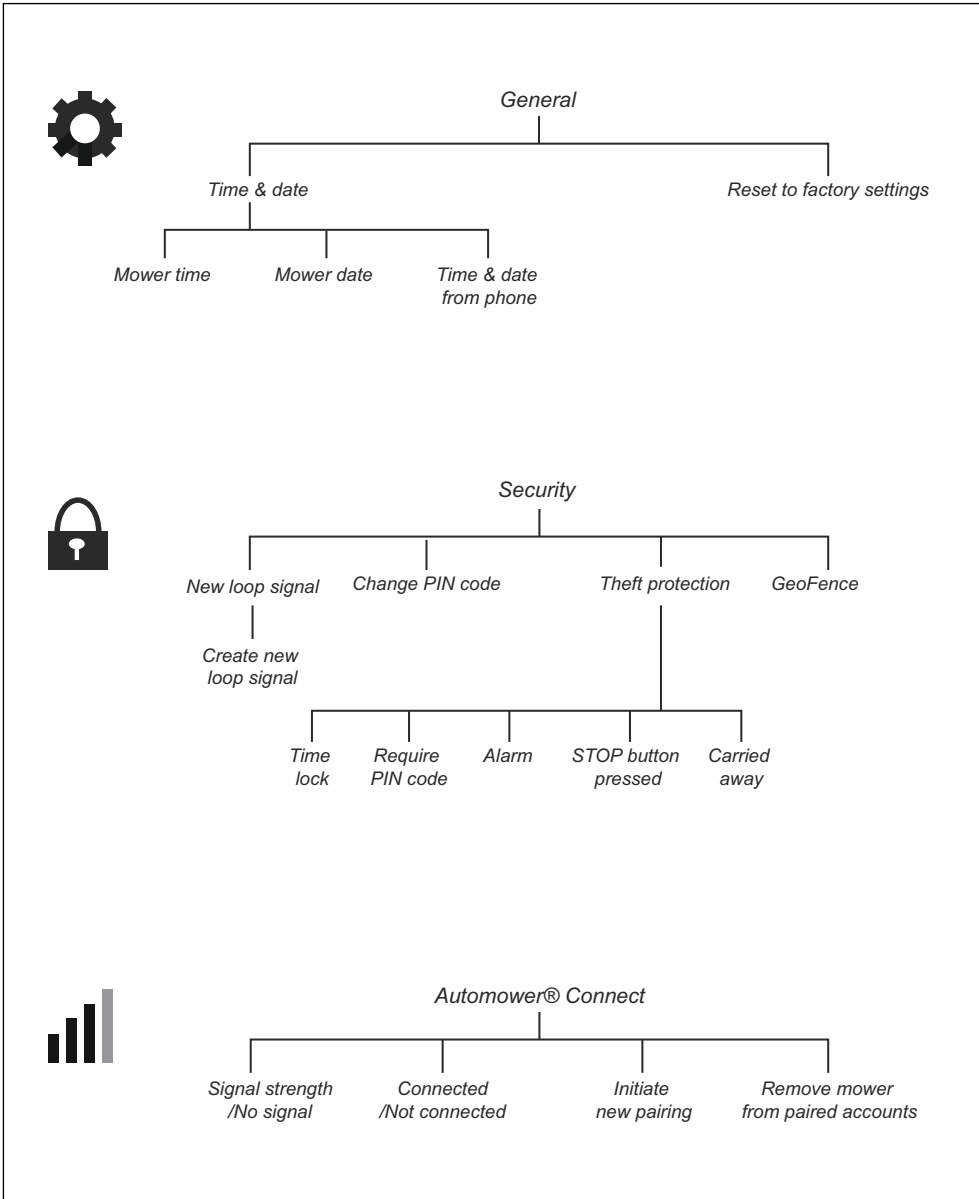
2.8 Overview of the settings structure in Automower® Connect (1)



2.9 Overview of the settings structure Automower® Connect (2)



2.10 Overview of the settings structure in Automower® Connect (3) (Bluetooth® short-range connectivity only)



3 Installation

3.1 Introduction - Installation



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



CAUTION: Use original spare parts and installation material.

Note: Refer to www.husqvarna.com for more information about installation.

Automower® 550 has the Automower® Club Solution where you can use 2 or 3 products in the same installation, refer to *Automower® Club Solution on page 18*.

3.2 Main components for installation

The installation involves the following components:

- A robotic lawn mower that mows the lawn automatically.
- A charging station, which has 3 functions:
 - To send control signals along the boundary wire.
 - To send control signals along the guide wire so that the product can follow the guide wire to specific remote areas in the garden and can find its way back to the charging station.
 - To charge the product.
- A power supply, which is connected to the charging station and a 100-240V power outlet.
- Loop wire, which is laid around the work area and around objects and plants that the product must not run into. The loop wire is used both as boundary wire and guide wire.

3.3 To prepare for installation

Read the installation chapter before you start the installation. Prepare the installation carefully to make the product operate satisfactorily.

- Make a blueprint of the work area and include all obstacles. This makes it easier to examine where to put the charging station, the boundary wire and the guide wire.
- Make a mark on the blueprint where to put the charging station, the boundary wire and the guide wire.
- Make a mark on the blueprint where the guide wire connects to the boundary wire. Refer to *To install the guide wire on page 19*.

- Fill in holes in the lawn to make it level.



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

- Cut the grass before you install the product. Make sure that the grass is maximum 10 cm / 4 in.
-

Note: The first weeks after installation the sound level when the product cuts the grass can be higher than usual. The sound level decreases after some time.

3.4 Before the installation of the wires

You can select to attach the wires with stakes or bury them. You can use the 2 procedures for the same work area.



CAUTION: If you use a dethatcher in the work area, bury the boundary wire and the guide wire to prevent them from damage.

3.4.1 To examine where to put the charging station

- Keep a minimum 2 m / 7 ft. of free space in front of the charging station. Refer to *To examine where to put the guide wire on page 17*.
- Keep a minimum of 150 cm / 60 in. of free space to the right and left of the center of the charging station.
- 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.

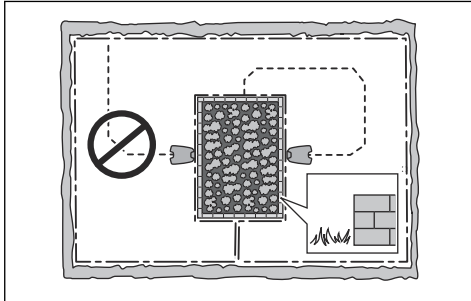
max. 5 cm / 2"

max. 5 cm / 2"



- If the work area has two parts separated with a steep slope, we recommend to put the charging station in the lower section.

- Put the charging station in an area with protection from the sun.
- If the charging station is installed on an island, make sure to connect the guide wire to the island. Refer to *To make an island on page 16.*



3.4.2 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.

3.4.3 To examine where to put the boundary wire



CAUTION: There must be a barrier of minimum 15 cm / 6 in. in height between the boundary wire and water bodies, slopes, precipices or public roads. This will prevent damage to the product.



CAUTION: Do not let the product operate on gravel.



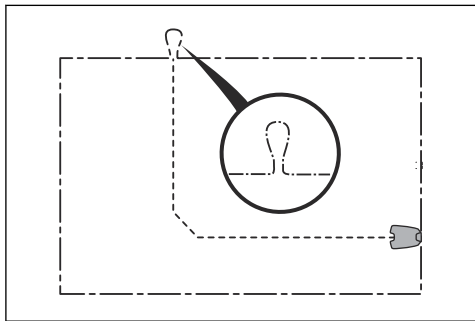
CAUTION: Do not make sharp bends when you install the boundary wire.



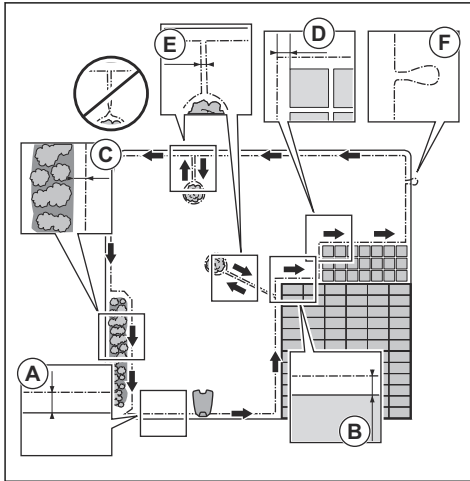
CAUTION: For careful operation without noise, isolate all obstacles such as trees, roots and stones.

The boundary wire should be put as a loop around the work area. Sensors in the product senses when the product approaches the boundary wire, and the product selects another direction. All parts of the work area must be maximum 35 m / 115 ft. from the boundary wire.

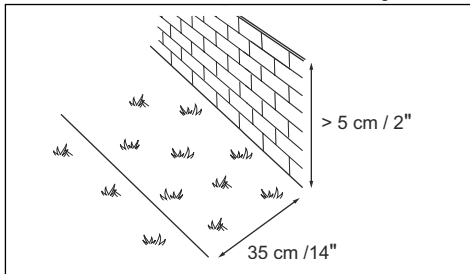
To make the connection easier between the guide wire and the boundary wire, it is recommended to make an eyelet where the guide wire will be connected. Make the eyelet with approximately 20 cm / 8 in. of the boundary wire.



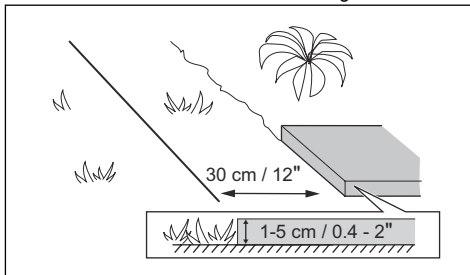
Note: Make a blueprint of the work area before you install the boundary wire and guide wire.



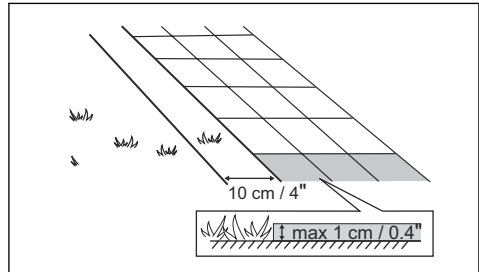
- Put the boundary wire around all of the work area (A). Adapt the distance between the boundary wire and obstacles.
- Put the boundary wire 35 cm / 14 in. (B) from an obstacle that is more than 5 cm / 2 in. high.



- Put the boundary wire 30 cm / 12 in. (C) from an obstacle that is 1-5 cm / 0.4-2 in. high.



- Put the boundary wire 10 cm / 4 in. (D) from an obstacle that is less than 1 cm / 0.4 in. high.



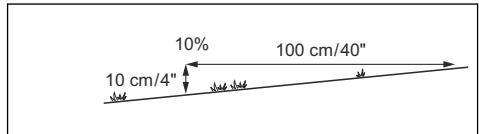
- If you have a paving stone path that is in level with the lawn, put the boundary wire below the paving stone.

Note: If the paving stone is minimum 30 cm / 12 in. wide, use the factory setting for the *Drive Past Wire* function to cut all the grass adjacent to the paving stone. Refer to *Drive Past Wire* on page 26.

- If you make an island, put the boundary wire that runs to and from the island near together (E). Put the wires in the same stake. Refer to *To make an island* on page 16.
- Make an eyelet (F) where the guide wire is to be connected to the boundary wire.

3.4.3.1 To put the boundary wire in a slope

The product can operate in 45% slopes. Slopes that are too steep must be isolated with the boundary wire. The gradient (%) is calculated as height per m. Example: 10 cm / 100 cm = 10%.



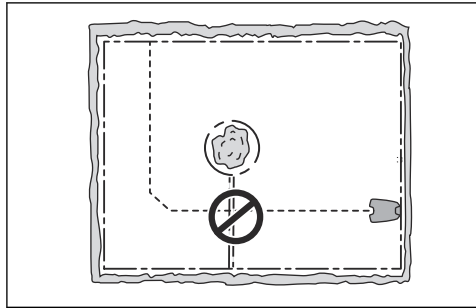
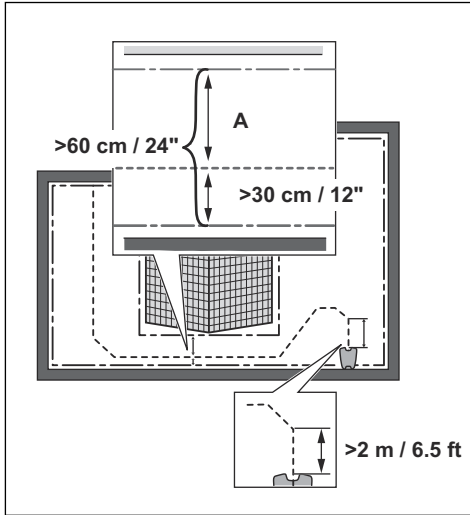
- For slopes steeper than 45% inside the work area, isolate the slope with boundary wire.
- For slopes steeper than 15% along the outer edge of the lawn, put the boundary wire 20 cm / 8 in. (A) from the edge.
- For slopes adjacent to a public road, put a barrier of minimum 15 cm / 6 in. along the outer edge of the slope. You can use a wall or a fence as a barrier.

3.4.3.2 Passages

A passage is a section that has boundary wire on each side and that connects 2 parts of the work area. The distance between the boundary wire on each side in the passage must be a minimum of 60 cm / 24 in.

Note: If a passage is less than 2 m / 6.5 ft. wide, install a guide wire through the passage.

The recommended minimum distance between the guide wire and the boundary wire is 30 cm / 12 in. The product always runs to the left of the guide wire as seen facing the charging station. It is recommended to have as much free area as possible to the left of the guide wire (A).



To make an island, isolate areas in the work area with the boundary wire. We recommend to isolate all stable objects in the work area.

Some obstacles are resistant to a collision, for example, trees or bushes that are more than 15 cm / 5.9 in. in height. The product will collide with the obstacle and then select a new direction.

- Put the boundary wire to and around the obstacle to make an island.
- Put the 2 sections of boundary wire to and from the island close together. This will make the product run across the wire.
- Put the 2 sections of boundary wire in the same stake.

3.4.3.3 To make an island



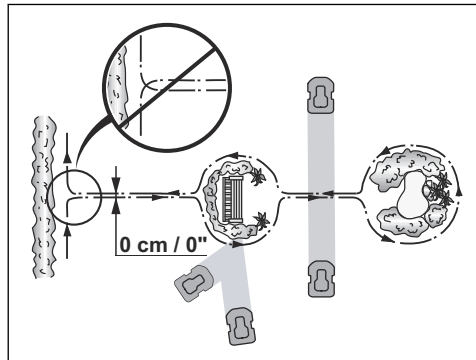
CAUTION: Do not put a section of boundary wire across the other. The sections of boundary wire must be parallel.



CAUTION: Do not put the guide wire across the boundary wire.

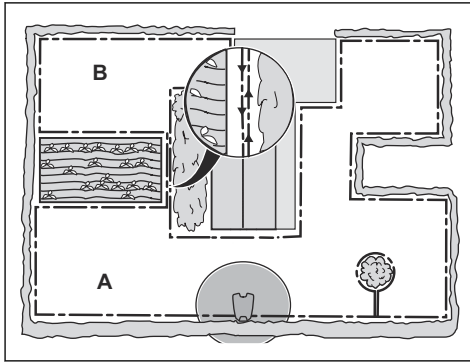


CAUTION: Isolate or remove obstacles that are less than 15 cm / 5.9 in. in height. Isolate or remove obstacles that slope slightly, for example, stones, trees or roots. This will prevent damage to the blades of the product.



3.4.3.4 To make a secondary area

Make a secondary area (B) if the work area has 2 areas that are not connected with a passage. The work area with the charging station is the main area (A).



Note: The product must be manually moved between the main area and the secondary area.

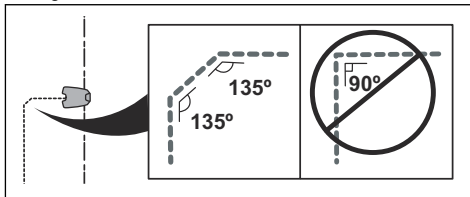
- Put the boundary wire around the secondary area (B) to make an island. Refer to *To make an island on page 16*.

Note: The boundary wire must be put as 1 loop around all of the work area (A + B).

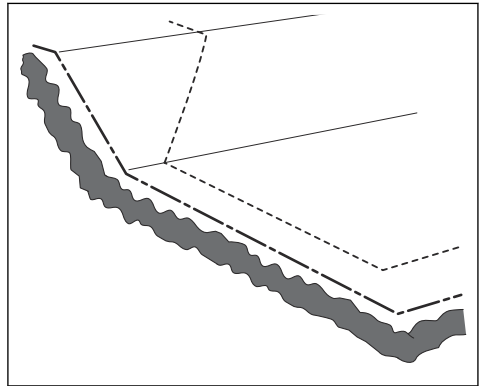
Note: When the product cuts grass in the secondary area, the *Secondary area* mode must be selected. Refer to *Operating mode - Start on page 29*.

3.4.4 To examine where to put the guide wire

- Put the guide wire in a line at a minimum of 2 m / 7 ft. in front of the charging station.
- Make as much free area as possible to the left of the guide wire when facing the charging station. Refer to *To examine where to put the charging station on page 13*.
- Put the guide wire minimum 30 cm / 12 in. from the boundary wire.
- Do not make sharp bends when you install the guide wire.

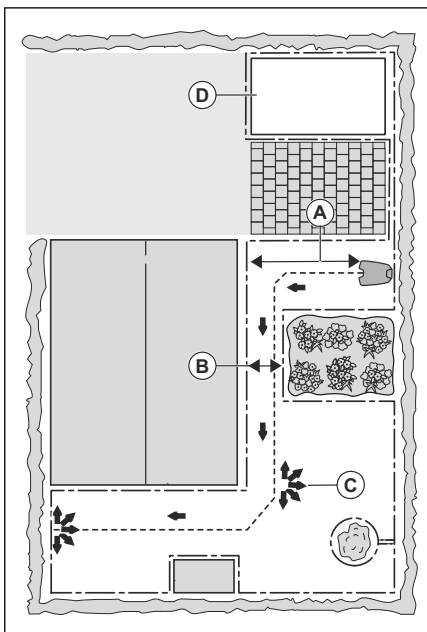


- If the work area has a slope, put the guide wire diagonally across the slope.



3.4.5 Work area examples

- If the charging station is put in a small area (A), make sure that the distance to the boundary wire is at a minimum 3 m / 10 ft. in front of the charging station.
- If the work area has a passage (B) with no guide wire installed, the recommended minimum distance between the boundary wires is 2 m / 6.5 ft. With a guide wire installed through the passage, the recommended minimum distance between the boundary wires is 60 cm / 24 in.
- If the work area has areas which are connected by a narrow passage (B), you can set the product to first follow and then leave the guide wire after a certain distance (C). The settings can be changed in *Lawn coverage on page 25*.
- Use the GPS Assisted Navigation that helps the product select the most optimal operation. Refer to *Lawn coverage on page 25*.
- If the work area includes a secondary area (D), refer to *Secondary area on page 29*. Put the product in the secondary area and select *Secondary area mode*.



3.5 Installation of the product

3.5.1 Installation tools

- Hammer/plastic mallet: To simplify putting the stakes into the ground.
- Edge cutter/straight spade: To bury the boundary wire.
- Combination pliers: For cutting the boundary wire and pressing the connectors together.
- Adjustable plier: For pressing the couplers together.

3.5.2 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.



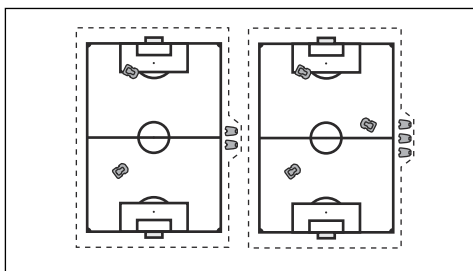
WARNING: The power supply cable and extension cable must be outside the work area to avoid damage to the cables.



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

3.4.6 Automower® Club Solution

Automower® Club Solution makes it possible to use 2 or 3 products in one installation. It requires special configuration in the product and the installation of the boundary wires and charging stations is different. To use Automower® Club Solution, speak to your local Husqvarna representative.



The installation of the boundary wire and charging stations must be made in parallel. Maximum width of the work area is 70 m / 230 ft.

The changes when using the Automower® Club Solution configuration are:

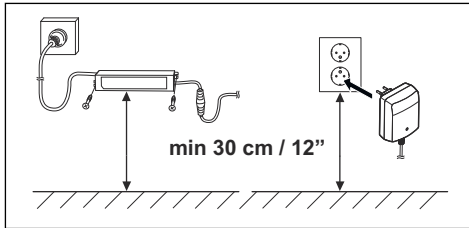
- The product follows the boundary wire clockwise to find the charging station.
- You cannot use guide cables.
- You cannot use the **Park** button.
- The blade disc speed and noise level increases.

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

1. Read and understand the instructions about where to put the charging station. Refer to *To examine where to put the charging station on page 13*.
2. Put the charging station in the selected area.

Note: Do not attach the charging station with the screws to the ground until the guide wire is installed. Refer to *To install the guide wire on page 19*.

3. Connect the low-voltage cable to the charging station.
4. Put the power supply at a minimum height of 30 cm / 12 in.



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

Note: When the charging station is connected, it is possible to charge the product. Put the product in the charging station while the boundary and guide wires are being laid. Switch on the product to start charging the product. Refer to *Main switch on page 29*. Do not continue with any product settings before the installation is complete.

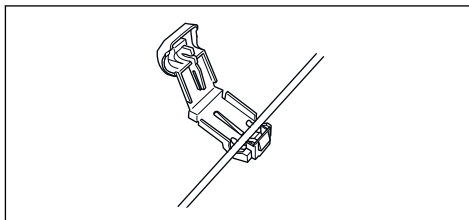
6. Put the low-voltage cable in the ground with stakes or bury the cable. Refer to *To put the wire into position with stakes on page 20* or *To bury the boundary wire or the guide wire on page 20*.
7. Connect the wires to the charging station after the installation of boundary wire and guide wire is complete. Refer to *To install the boundary wire on page 19* and *To install the guide wire on page 19*.
8. Attach the charging station to the ground with the supplied screws after the guide wire is installed. Refer to *To install the guide wire on page 19*.

3.5.3 To install the boundary wire

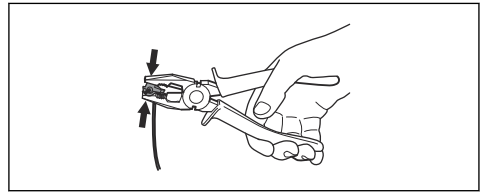


CAUTION: Do not put remaining wire in a coil. The coil causes interference with the product.

1. Put the boundary wire around all of the work area. Start and complete the installation behind the charging station.
2. Open the connector and put the boundary wire in the connector.



3. Close the connector with a pair of pliers.



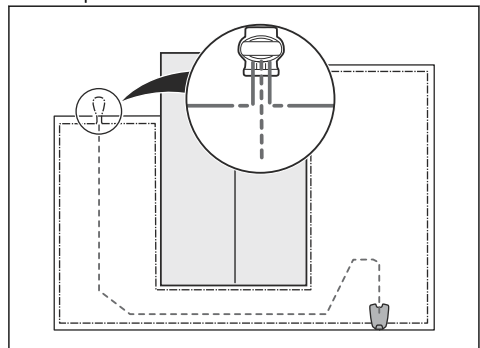
4. Cut the boundary wire 1-2 cm / 0.4-0.8 in. above each connector.
5. Push the right connector onto the metal pin on the charging station with the mark "AR".
6. Push the left connector onto the metal pin on the charging station with the mark "AL".

3.5.4 To install the guide wire



CAUTION: Twinned cables, or a screw terminal block that is insulated with insulation tape are not satisfactory splices. Soil moisture will cause the wire to oxidize and after a time result in a broken circuit.

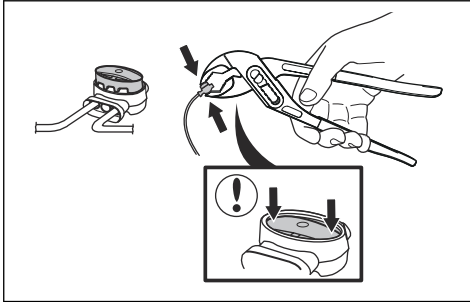
1. Open the connector and put the wire in the connector.
2. Close the connector with a pair of pliers.
3. Cut the guide wire 1-2 cm / 0.4-0.8 in. above each connector.
4. Push the guide wire through the slot in the charging station plate.
5. Push the connector onto the metal pin on the charging station with the mark "G1", if applicable, also for "G2" and "G3".
6. Disconnect the charging station from the power outlet.
7. Put the end of the guide wire at the eyelet on the boundary wire.
8. Cut the boundary wire with a pair of wire cutters.
9. Connect the guide wire to the boundary wire with a coupler.



- a) Put the 2 ends of the boundary wire and the end of the guide wire into the coupler.

Note: Make sure that you can see the ends of the wires through the transparent area of the coupler.

- b) Push the button on the coupler with an adjustable pliers.



10. Attach the guide wire to the ground with stakes or bury the guide wire in the ground. Refer to *To put the wire into position with stakes on page 20* or *To bury the boundary wire or the guide wire on page 20*.
11. Connect the charging station to the power outlet.

3.6 To put the wire into position with stakes



CAUTION: Make sure that the stakes hold the boundary wire and the guide wire against the ground.



CAUTION: Cutting the grass too low right after installation can damage the wire insulation. Damage to the insulation may not cause disruptions until several weeks or months later.

1. Put the boundary wire and the guide wire on the ground.
2. Put the stakes at a maximum of 30 cm / 12 in. distance from each other.
3. Attach the stakes to the ground with a hammer or a plastic mallet.

Note: The wire is overgrown with grass and not visible after a few weeks.

3.7 To bury the boundary wire or the guide wire

- Cut a groove in the ground with an edge cutter or a straight shovel.
- Put the boundary wire or the guide wire 1-20 cm / 0.4-8 in. into the ground.

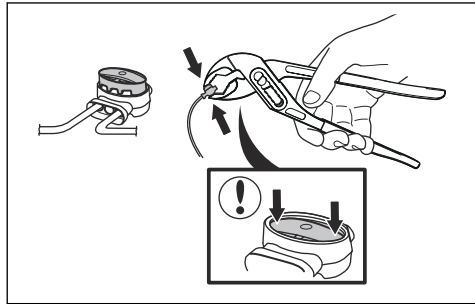
3.8 To extend the boundary wire or the guide wire

Note: Extend the boundary wire or the guide wire if it is too short for the work area. Use original spare parts, for example couplers.

1. Disconnect the charging station from the power outlet.
2. Cut the boundary wire or the guide wire with a pair of wire cutters where it is necessary to install the extension.
3. Add wire where it is necessary to install the extension.
4. Put the boundary wire or the guide wire into position.
5. Put the wire ends into a coupler.

Note: Make sure that you can see the ends of the boundary wire or the guide wire through the transparent area of the coupler.

6. Push down the cover on the coupler with adjustable pliers to attach the wires in the coupler.



7. Put the boundary wire or the guide wire into position with stakes.
8. Connect the charging station to the power outlet.

3.9 After the installation of the product

3.9.1 To do a visual check of the charging station

1. Make sure that the indicator LED lamp on the charging station has a green light.

2. If the indicator LED lamp does not have a green light, do a check of the installation. Refer to *LED indicator lamp on the charging station on page 42* and *To install the charging station on page 18*.

3.9.2 To do the basic settings

When the product is switched on for the first time, there are some basic settings to do before the product can start to operate. You must for example pair the product and the charging station, and you can choose to enable the theft protection in GeoFence. Refer to *GeoFence on page 28*. You must also pair the product and the Automower® Connect app to be able to change the settings and operate the product. Refer to *Automower® Connect on page 21*.

1. Switch on the product.

Note: The Bluetooth® pairing mode is active for 3 minutes. If pairing has not been successful within this time period, switch off the product. Wait until the LED status indicator is not lit, and then switch on the product again.

2. Enter the factory PIN code.
3. Log in to your Husqvarna account in the Automower® Connect app.
4. Start Bluetooth® on your mobile device.
5. Select *My mowers* in the Automower® Connect app, and then select the plus sign (+).
6. Select model. The Automower® Connect app searches for available products within short-range (Bluetooth®).
7. Select product.
8. Follow the instructions in the Automower® Connect app.

Note: It is only necessary to pair the Automower® Connect app and the product once.

Note: To disconnect the Automower® Connect app, the app must be fully closed down.

3.10 Automower® Connect

The app gives 2 modes of connectivity: Long-range cellular connectivity and Short-range Bluetooth® connectivity.

The product can connect to mobile devices that have the Automower® Connect app installed. Automower® Connect is a free app for your mobile device. The Automower® Connect app gives extended functions to your Husqvarna product. You can:

- See the status of your product.
- Change settings to your product.

- Get extended product information.
 - Get an alarm if the product moves out of the work area.
 - See statistics of your product.
-

Note: All countries do not support Automower® Connect because of regional specified cellular systems. The included Automower® Connect lifetime service only applies if there is a third part sub-supplier of 2G/3G/4G available in the operational area.

The Automower® Connect app is preferable if you have one or few products installed. For users with several products we recommend you to use Husqvarna Fleet Services™. Refer to *Husqvarna Fleet Services™ on page 28*.

3.10.1 To install the Automower® Connect app

1. Download the Automower® Connect app on your mobile device.
2. Sign up for a Husqvarna account in the Automower® Connect app.
3. An e-mail is sent to the registered e-mail address. Follow the instructions in the e-mail in less than 24 hours to validate your account.
4. Log in to your Husqvarna account in the Automower® Connect app.

3.10.2 To pair Automower® Connect and the product

1. Do step 1-7 in *To do the basic settings on page 21*.
2. Obey the instructions in the Automower® Connect app.

3.10.3 Dashboard

The dashboard shows the current status of the product both visually and in text. It is very easy to control the product by selecting the options, for example *Park*.

In the lower part of the dashboard there are shortcuts to the *Schedule settings* and the *Map*. The dashboard also shows symbols according to below:

1. The battery status shows the battery state of charge. A flash is shown over the battery symbol when the product charges its battery. A plug is shown over the battery symbol when the product is in the charging station without charging.
2. Cutting height.



For more information about the operating modes *Start*, *Park* and *Pause*, refer to *Operation on page 29*.

3.10.4 Account

In this menu there is an overview of the account settings and you can log off from the app.

3.10.4.1 To set the unit format

1. Select the unit format *Metric* or *Imperial*.

3.10.5 My mowers

When choosing *My mowers* you can manage all the products paired to your account, as well as add new ones. If there are several paired products it is possible to select one of them as *Current mower*.

To pair a new product to the Automower® Connect app:

1. Select the plus sign (+).
2. Select model.
3. Follow the instructions in the Automower® Connect app to finalize the pairing.

3.10.6 Automower® Direct

Automower® Direct uses short-range Bluetooth® communication, and is included in Automower® 520/550.

Automower® Direct is useful if the operator has the Automower® Connect app and the PIN code, but has not created a Husqvarna account. Automower® Direct is also useful if the connection with the product is only temporary.

Husqvarna cannot guarantee the time period or coverage of the long-range cellular connectivity. There is therefore a possibility to communicate with the product through Bluetooth® if you are in short-range of the product. You can use Automower® Direct without a Husqvarna account as long as you have the product PIN code.

Note: The Automower® Direct connection is only valid as long as you are within Bluetooth® range. If you move out of Bluetooth® range, you will lose the Automower® Direct connection and you must do the connection process again.

3.10.6.1 To start to use Automower® Direct

1. Download the Automower® Connect app on your mobile device.
2. Select Automower® Direct on the start screen of the Automower® Connect app.
3. Start Bluetooth® on your mobile device and on the product, refer to *To do the basic settings on page 21*.
4. Select the product to pair with in the Automower® Connect app.
5. Enter the PIN code for the product.

Note: You have access to the menus and functions as long as you are within Bluetooth® short-range.

3.10.7 Map

The map shows the current position of the product and the set centerpoint for GeoFence.

3.10.7.1 Map settings

1. Open *Map* in the main menu.
2. Select the settings symbol.
3. Enable or disable *Movement path*.
4. Enable or disable *GeoFence radius*.
5. Select *Map view* or *Satellite view*.

3.11 Settings in Automower® Connect

The product has factory settings but the settings can be adapted to each work area.

3.11.1 Schedule



In *Schedule* you can change the schedule settings for the product.

The schedule function controls which hours the product should operate and not operate. When the product is not operating it is parked in the charging station. The operating hours and days can be seen in an overview in the Automower® Connect app.

The default schedule setting allows the product to operate around the clock 7 days a week. This is normally a suitable setting for a work area corresponding to the maximum capacity. If the work area is less than the maximum capacity the schedule

should be used to minimize wear on the grass and to the product.

The table shows the approximate number of hours the product must operate each day for a specified area dimension.

Area	Automower® 520	Automower® 550
500 m ² /0.12 acre	7	3.5
1000 m ² /0.25 acre	14	7
1500 m ² /0.37 acre	22	10.5
2000 m ² /0.5 acre		14
2500 m ² /0.62 acre		17.5
3000 m ² /0.75 acre		21
3500 m ² /0.86 acre		24

There are 3 different quality levels that you can select which decides the cutting frequency:

- Pro sport quality: Used for premium sports fields or golf courses that are cut everyday at low cutting height. For a well-managed, lush, and dense turf.
- Pro quality: Used for sports fields and golf courses at medium ambition level. Also used for facilities with high demands on grass quality with medium grass height and normal dense quality of turf.
- Regular quality: Used for green spaces with lower demands. This means areas with less grass growth, high cutting height and normal to low dense quality of turf.

Quality	Operation frequency
Pro sport quality	Each day
Pro quality	Each second day
Regular quality	Each third day

3.11.1.1 To edit the schedule settings

1. Select *Settings > Schedule > Edit* in the app.
2. Select the pencil symbol in the app.
3. Select which days of the week and hours the product must operate.
4. Select *Save*.

3.11.1.2 To add a new schedule setting

1. Select *Settings > Schedule > Edit* in the app.
2. Select the plus sign in the app.
3. Select which days of the week and hours the product must operate.
4. Select *Save*.

3.11.2 Cutting height



3.11.2.1 Adjust the cutting height

The cutting height can be varied from MIN (2 cm / 0.8 in.) to MAX (6 cm / 2.5 in.).

Note: During the first week after a new installation, the cutting height must be set to MAX to avoid damaging the loop wire. After this, the cutting height can be lowered step by step every second week until the desired cutting height has been reached.

To adjust the cutting height with Automower® Connect

The cutting height can be adjusted from MIN to MAX

1. Select *Settings > Cutting height*.
2. Move the horizontal bar to set the cutting height.
3. Select *Save*.

TargetHeight

Use the TargetHeight function to lower the cutting height from MAX to the specified cutting height gradually during 10 days. If you change the cutting height manually during this time it will disable the TargetHeight function.

To set the TargetHeight

1. Select *Settings > Cutting height*.
2. Select on/off to enable or disable the *TargetHeight* function.
3. Select *Save*.

3.11.3 Operation

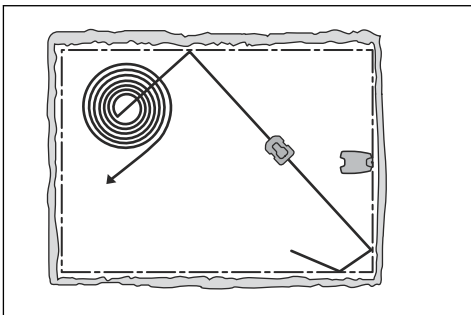


In the Operation's menu it is possible to change the settings of the *Weather timer*, *ECO mode* and *Spiral cutting*.

3.11.3.1 Spiral cutting

If the product enters an area where it senses the grass is longer than average, it can change the movement pattern to *Spiral cutting*. This means that the product mows in a spiral pattern to faster cut the area with longer grass. It is possible to set the intensity of the *Spiral cutting*. *Very low / Low* intensity means that *Spiral cutting* begins less often. *High / Very high* intensity means that *Spiral cutting* begins more often.

Note: *Spiral cutting* is only started in the *Main area* mode. Cutting in the *Secondary area* mode does not let the product to start *Spiral cutting*. *Spiral Cutting* does not start in slopes steeper than 15%.



1. Select *Settings > Operation* in the app.
2. Select *On/Off* to enable or disable *Spiral cutting*.
3. Select *Settings > Spiral Cutting > Use > Intensity* to select the level of the function.
4. Select *Save*.

3.11.3.2 Weather timer

Weather timer automatically adjust the cutting time to the growth of the grass. The product is not permitted to operate more than the schedule settings.

Note: When using *Weather timer*, it is recommended to make as much operating time as possible available for *Weather timer*. Do not restrict the schedule more than necessary.

The first operation of the day is set by the schedule settings. The product always complete 1 mowing cycle, and then *Weather timer* selects if the product will continue to operate or not.

Note: *Weather timer* is reset if the product does not operate for more than 50 hours, or if a *Reset of all user settings* is done. *Weather timer* is not changed if a *Reset of schedule settings* is done.

To set the Weather timer

1. Select *Settings > Operation* in the app.
2. Select *on/off* to enable or disable the *Weather timer*.

Note: If the cutting results are not satisfactory, the cutting time can be adjusted. Set the cutting time *High* to cut for a longer time or *Low* to cut for a shorter time.

3. Select *Save*.

3.11.3.3 ECO mode

If *ECO mode* is activated, it switches off the signal in the boundary loop, the guide wire and the charging station, when the product is parked or is charging.

Note: Use *ECO mode* to save energy and avoid interference with other equipment, for example hearing loops or garage doors.

Note: To start the product manually in the work area, push the **STOP** button before you remove the product from the charging station. If not, the product cannot be started in the work area.

To set the ECO mode

1. Select *Settings > Operation* in the app.
2. Select *on/off* to enable or disable the *ECO mode* function.
3. Select *Save*.

3.11.4 Installation



In the *Installation* menu it is possible to adapt the settings of the product for best mowing result.

3.11.4.1 To find the charging station

The product can be set to search for the charging station in 3 methods:

- *Charging station signal*
- *Follow boundary wire*
- *Follow guide wire*

The factory setting is set to use the 3 search methods at the same time. Use the factory setting to find the charging station as fast as possible and to keep the risk of tracks on the lawn to a minimum. The product always starts to search for the *Charging station signal*. After a specified time interval, it also uses *Follow guide* and *Follow boundary wire*.

Causes why the product cannot follow the wire:

- Obstacles near the wire have not been isolated.
- The charging station, the boundary wire or the guide wire are not installed according to the instructions in *To install the charging station on page 18*, *To install the boundary wire on page 19* and in *To install the guide wire on page 19*.

To change the signal range of the charging station

For some installations it is necessary to decrease the signal of the charging station. For example when the charging station is put near an obstacle such as a bush or wall and the signal reaches to the other side

of the obstacle. The product knows that it is close to the charging station and tries to dock, but the objects prevents it. The options are *min*, *avg* (average) or *max*.

Note: The recommended setting is *max*. It is usually better to move the charging station, than to decrease the range of the charging station signal.

1. Select *Settings > Installation > Find charging station* in the app.
2. Select signal range.
3. Select *Save*.

To set the delay time for the guide wire and the boundary wire

1. Select *Settings > Installation > Find charging station* in the app.
2. Select *on/off* to enable or disable to follow the wire.
3. Move the horizontal bar to set the time delay.
4. Select *Save*.

3.11.4.2 Lawn coverage

The product has GPS Assisted Navigation that helps the product select the most optimal operation.

Use the *Lawn coverage* function to set the settings to manual.

To set the GPS function

1. Select *Installation > Settings > Lawn coverage* in the app.
2. Select *on/off* to disable or enable the GPS function.

Note: When GPS assisted navigation is enabled it is used while there is a GPS service. The GPS assisted navigation is used even if manual settings have been made. Only when GPS service is not available, the manual settings are used.

3. Select *Save*.

To set the Lawn Coverage function

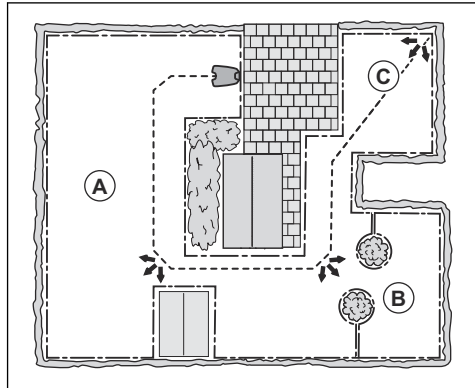
The *Lawn Coverage* function is used to guide the product to remote parts of the work area. If the work area includes remote parts that are connected with narrow passages, the *Lawn Coverage* function is useful to to keep a well-cut lawn in all parts of the yard. You can set a maximum of 5 remote areas where the product starts to cut the lawn.

With the *Lawn Coverage* function the product first follows and then leaves the guide wire after a certain distance and starts to mow the lawn.

Area A, approximately 50%

Area B, approximately 30%

Area C, approximately 20%



Each area can be enabled or disabled, without having to enter the settings again.

1. Select *Settings > Installation > Lawn coverage* in the app.
2. Select *on/off* to disable the GPS function to set the *Lawn Coverage*.
3. Select *on/off Area 1-5* to activate the area.
4. Move the horizontal bar to set which wire the product will follow. The product can follow *Boundary wire left*, *Boundary wire right* or one of the guide wires.
5. Move the horizontal bar to set the distance the product must follow the wire. The product then leaves the wire and starts to cut the lawn. Refer to *To measure the distance from the charging station on page 25*.
6. Move the horizontal bar to set how often the product goes to each area. At all other times, the products starts to cut near the charging station. The percentage is equal to the percentage of the area in relation to the complete work area.
 - a) Measure the area.
 - b) Divide the measured area with the total work area.
 - c) Convert the result to percentage.
 - d) Move the horizontal bar to set the distance from the charging station.
7. Select *Save*.

The default settings lets the product follow the guide wire 300 m / 980 ft. in 20% of the times it leaves the charging station. If the guide wire is less than 300 m / 980 ft. the product will follow it to the point where the guide wire is connected to the boundary wire.

To measure the distance from the charging station

1. Put the product in the charging station.
2. Select *Settings > Installation > Lawn coverage* in the app.

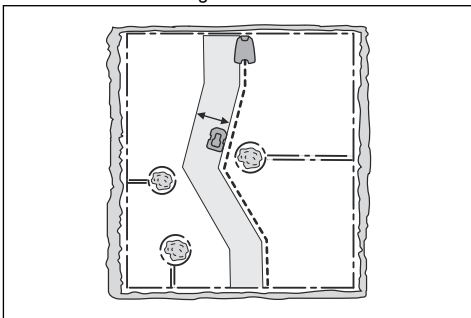
3. Move the horizontal bar to set the distance to the charging station to maximum.
4. Select *Test: Area 1-5 setup*.
5. Follow the instructions in the app to start the test.
6. Push the **STOP** button when the product is at the distance you select to measure. The distance shows in the app.

To do a test of the Lawn Coverage function

1. Put the product in the charging station.
2. Select *Settings > Installation > Lawn coverage* in the app.
3. Select *Test: Area 1-5 setup*.
4. Follow the instructions in the app to start the test.
5. The product will run to the starting point for this area.

3.11.4.3 Corridor width

The boundary wire corridor is the area adjacent to the boundary wire and the guide corridor is the area adjacent to the guide wire. The product uses the corridors to find the charging station. When the product moves in the direction of the charging station, it always moves to the left of the guide wire.



The corridor width is adjusted automatically. Only some times it is necessary to enter manual settings. The corridor width can be set between 0-9. If guide corridor width is set to 0, the product straddles the guide wire. The factory setting is 6 for the boundary wire and 9 for the guide wire.

To set the corridor width

1. Select *Settings > Installation > Corridor width* in the app.
2. Move the horizontal bar to set the width.
3. Select *Save*.

Note: Make the corridor width as wide as possible for a minimum risk of lines in the lawn.

3.11.4.4 Exit angles

In the factory setting the product moves out from the charging station in a direction in the 90°-270° exit sector. Change the exit angles to make it easier for the product to find the work areas. If the charging station is put in a passage, 2 exit angles, for example 70°-110° and 250°-290°, can be used. When 2 exit angles are used, it is necessary to set how frequently the product must move out from the charging station in Sector 1. Use the Proportion function to set how frequently the product must use each sector. For example 75% means that the product moves out from the charging station in Sector 1 on 75% of the times and 25% of the times in Sector 2.

To set the exit angles

1. Select *Settings > Installation > Exit angles* in the app.
2. Move the horizontal bar to set the angles in degrees for the sectors, and proportion as a percentage.
3. Select *Save*.

3.11.4.5 Reversing distance

The reversing distance makes the product move in reverse for a set distance, before the product starts to cut the lawn. The factory setting is 60 cm / 24 ft.

To set the reversing distance

1. Select *Settings > Installation > Reversing distance* in the app.
2. Move the horizontal bar to set the distance.
3. Select *Save*.

3.11.4.6 Drive Past Wire

The front of the product always moves past the boundary wire by a specified distance before the product moves back into the work area. The factory setting for the *Drive Past Wire* function is 31 cm / 12 in. You can select a distance of 20-50 cm / 8-20 in.

Note: With the factory setting the product will cut 11 cm / 4 in. past the wire.

Note: If the *Drive Past Wire* distance is changed, the distance will change along the boundary wire everywhere in the work area.

To set the Drive past wire

1. Select *Settings > Installation > Drive past wire* in the app.
2. Move the horizontal bar to set the distance.
3. Select *Save*.

3.11.5 Accessories



Settings for accessories mounted on the product can be made in this menu.

3.11.5.1 To avoid collisions with the Automower® house

When this option is enabled, the wear on the product and the Automower® house is reduced, but it can result in more uncut grass around the charging station.

1. Select *Settings > Accessories > Mower house* in the app.
2. Select *on/off* to enable or disable the function.
3. Select *Save*.

3.11.5.2 To set the ultrasonic

1. Select *Settings > Accessories > Ultrasonic* in the app.
2. Select *on/off* to enable or disable the function.
3. Select *Save*.

3.11.6 General (Bluetooth® only)



This function is used to set time and date, or to reset to default settings.

3.11.6.1 Time & date

The time and date can be changed manually, or by using the time and date from the mobile device.

To set the time & date

1. Select *Settings > General > Time & Date* in the app.
2. Select *Time & Date from phone* or select the pencil to enter the correct time and date.
3. Select *Save*.

3.11.6.2 Reset to factory settings

The user settings can be reset to factory settings.

Note: *PIN code, Loop signal, Messages and Date & Time* will not be reset.

To reset to factory settings

1. Select *Settings > General > Reset* in the app.
2. Select *Reset to factory settings*.

3.11.7 Security (Bluetooth® only)



The security settings controls the PIN code, the GeoFence and other security functions. The correct PIN-code must be entered to get access to the *Security* menu in the Automower® Connect app.

3.11.7.1 New loop signal

The loop signal is randomly selected to create a unique link between the product and the charging station. In rare cases, there may be a need to generate a new signal, for instance if 2 adjacent installations have a very similar signal.

To create a New loop signal

1. Put the product in the charging station.
2. Select *Security > New loop signal > Create new loop signal* in the app.
3. Select *Save*.
4. Wait for confirmation that the loop signal has been generated. This usually takes about 10 seconds.

3.11.7.2 To change the PIN code

1. Select *Security > Change PIN code* in the app.
2. Enter the PIN code.
3. Enter the new PIN code.
4. Enter the new PIN code to confirm.
5. Make a note of the new PIN code in Memo. Refer to *Introduction on page 6*.

3.11.7.3 Theft protection

In the *Theft protection* menu it is possible to set the alarm duration and also what events should trigger the alarm. The factory setting is to require PIN code and the alarm duration is 1 min.

Time lock

The time lock can be set between 1 to 100 days. The factory setting is 30 days. When the selected number of days has gone by, the product continues to operate as usual. To enter new settings the PIN code must be entered.

Require PIN code

This function means that the product cannot be operated or controlled after the **STOP** button has been pushed without first entering the correct PIN code. If the incorrect PIN code is entered 5 times, the product is locked for a time. The lock is extended for each new incorrect try.

Alarm duration

There is a possibility to set how long the alarm signal should last. A setting between 1 and 10 minutes is possible.

STOP button pressed

If the alarm "STOP button pressed" is enabled, the alarm goes off if someone presses the **STOP** button and the PIN code is not entered within 30 seconds.

Carried away

If the alarm *Carried away* is enabled, the product senses unexpected motions, and the alarm goes off.

To set the Theft protection

1. Select *Settings > Security > Theft protection* in the app.
2. Select the on/off button to enable or disable the *Time lock, Require PIN code, STOP button pressed* and *Carried away*.
3. Move the horizontal bar to select the duration of the alarm.

3.11.7.4 GeoFence

GeoFence is a GPS-based theft protection that makes a virtual fence for the product. If the product is more than a set distance away from the center position the product will be deactivated and an alarm will start. The PIN code is needed to deactivate the alarm and to start the product again.

To set the center position and radius for the GeoFence function

1. Select *Settings > Security > GeoFence* in the app.
2. Put the product in a central position of the work area.
3. Select the *on/off* button to enable or disable the GeoFence function. The center position will be set to the current position of the product.
4. Use the horizontal bar to set the radius.

3.11.8 Automower® Connect (Bluetooth® only)



In *Automower® Connect* you can enable or disable the Automower® Connect module. You can also see the signal strength, connectivity status, initiate new pairing or remove the product from the paired accounts.

3.11.9 Messages (Bluetooth® only)

In this menu the previous fault and information messages can be found. For some of the messages, there are tips and advice to help to rectify the fault.

Note: The *Messages* menu is only available for Bluetooth® short-range connectivity.

If the product is disrupted in any way, for example it is trapped or the battery is low, a message is saved relating to the disruption and the time it happened.

If the same message is repeated several times, this may indicate that an adjustment to the installation or the product is required. Refer to *Installation on page 13*.

3.11.10 Husqvarna Fleet Services™

Husqvarna Fleet Services™ is a cloud solution that gives the commercial fleet manager an overview of all products. It also gives the fleet manager the possibility to control all products remotely. Husqvarna Fleet Services™ is included for Automower® 520/550. For more information about Husqvarna Fleet Services™, refer to www.husqvarna.com.

3.11.10.1 To connect to the product with Husqvarna Fleet Services™

1. Download the Husqvarna Fleet Services™ app and Automower® Connect app to your mobile device.
2. Make a Husqvarna Fleet Services™ account (www.husqvarna.com).
3. Log on to the Husqvarna Fleet Services™ app.
4. Set the **Main switch** on the product to the *1* position.

Note: The Bluetooth® pairing operation mode of the product is enabled for 3 minutes. If the pairing operation between the product and the mobile device is not completed in 3 minutes, set the product to OFF and then set the product to ON.

5. Select the plus sign (+) in the Husqvarna Fleet Services™ app.
6. Select *Automower®* and then *Automower® Pro*. The Husqvarna Fleet Services™ app searches for available products within short-range (Bluetooth®).
7. Select the product.
8. Select *Acquire pairing code* to connect the product to your Husqvarna Fleet Services™ account.
9. Obey the instructions in the Husqvarna Fleet Services™ app.

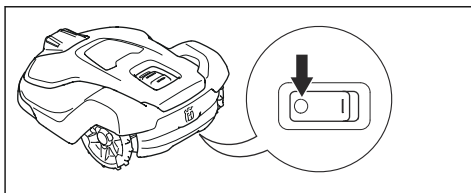
Note: It is only necessary to do a pairing operation of the Husqvarna Fleet Services™ app and the product one time.

4 Operation

4.1 Main switch



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

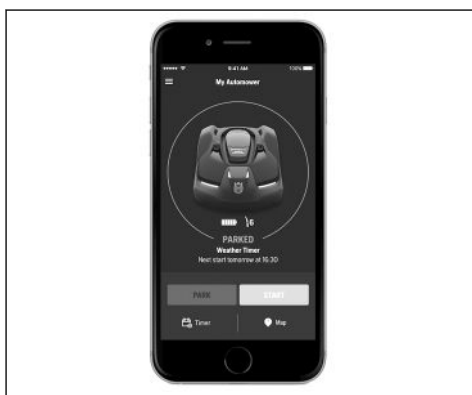


- Set the **Main switch** to the **1** position to start the product.
- Set the **Main switch** to the **0** position to set the product to OFF.

4.2 Start

1. Set the **Main switch** to the **1** position.
 2. Open the Automower® Connect app.
 3. Select the *Dashboard*.
 4. Select *Start* in the Automower® Connect app.
- If the product is parked in the charging station, it only goes from the charging station when the battery is fully charged and if the schedule is set to let the product to operate.

Note: Make sure that the **START** button on top of the product is in the correct position. The product does not start if the **STOP** button is enabled.



4.3 Operating mode - Start

When *Start* has been selected the following operation selections can be selected.

- Main area
- Override schedule
- Secondary area

4.3.1 Main area

Main area is the standard work mode where the product cuts grass and charges automatically.

1. Open the Automower® Connect app.
2. Select *Dashboard* in the Main menu.
3. Select *Start*
4. Select *Resume on main area* to start the product.

4.3.2 Override schedule

Any schedule settings can be temporarily overridden by selecting *Override schedule*.

1. Select *Dashboard* in the Main menu.
2. Select *Start*.
3. Slide the horizontal bar of *Override schedule* to find a suitable override duration. It is possible to override the schedule up to 7 days.
4. Select a suitable override duration.

4.3.3 Secondary area

To cut secondary areas the operating mode *Secondary area* must be selected. In this mode, you must move the product manually between the main area and the secondary area. The product cuts for a selected period of time or until the battery is empty. When the battery is empty the product stops. Put the product in the charging station to charge the battery. When the battery is charged, the product moves out of the charging station and stops. The product is now prepared to start operation, but needs confirmation from you first.

Note: If you want to cut the main area after the battery is charged, set the product to *Main area* mode before you put the product in the charging station.

4.4 Operating mode - Park

When selecting *Park* the following operation selections can be chosen.

- Park until further notice
- Start with schedule
- Parking duration

4.4.1 Park until further notice

The operation mode *Park* means that the product goes back to the charging station where it stays until a new operation mode is selected and the **START** button is pushed.

4.4.2 Start on next schedule

The product goes back to the charging station where it stays until the next schedule setting let the product to operate. Use the operation selection to stop operation temporary, for example for irrigation or for games on the lawn.

4.4.3 Parking duration

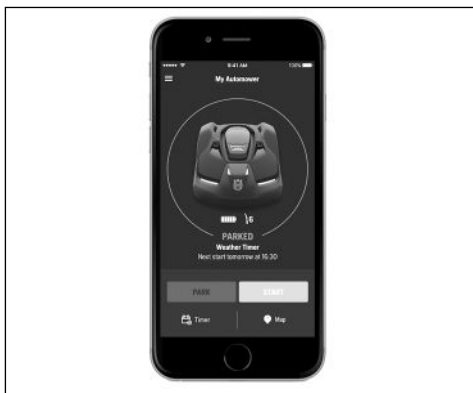
The product goes back to the charging station and stays for the selected park duration. Use the operation selection to temporary stop an ongoing mowing cycle and let the product to stay in the charging station.

4.4.4 The charging station's park button

The **PARK** button on the charging station is used to call the product back to the charging station. *Park* in the Automower® Connect app offers the same function. The **PARK** button on the charging station is useful for instance when the product operates in a large work area and the operator does not have access to the Automower® Connect app.

An LED in the **PARK** button is lit when the button has been pressed. The LED diode goes out when the product is parked in the charging station.

The product stays in the charging station until *Start* in the Automower® Connect app is activated.

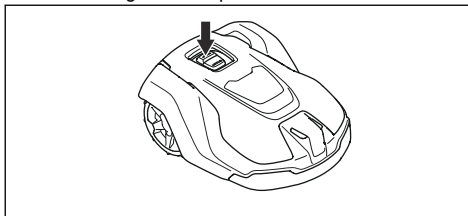


4.4.5 Operating mode - Pause

When selecting *Pause* in the Automower® Connect app, the product stop the current activity and pause. The product is paused until either *Park* or *Start* is selected in the Automower® Connect app.

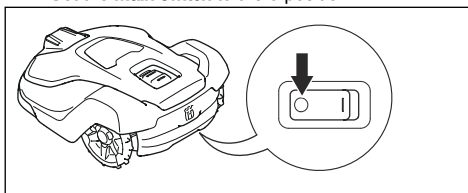
4.5 To stop the product

1. Push the **STOP** button to make the product and the cutting motor stop.



4.6 To set the product to OFF

1. Push the **STOP** button.
2. Set the **Main switch** to the 0 position.



4.7 To charge the battery

When the product is new or after long-term storage, the battery can be empty. Charge the battery before you start the product.

1. Set the **Main switch** to the 1 position.
2. Put the product into the charging station until the charging plates touch the contact plates.
3. Do a check that the product charges in the Automower® Connect app.

5 Maintenance

5.1 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 2 to 5 weeks. The conditions that follow can increase or decrease the lifetime of the blades:

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

Note: The cut result can be unsatisfactory if the blades are blunt. Refer to *Replacement of the blades on page 33* on how to replace the blades.

5.2 Maintenance schedule

The maintenance schedule shows how to do servicing and maintenance on the product. Follow the maintenance schedule for a better operation and to increase the lifetime of the product.

X = The instructions are given in this operator's manual.

O = The instructions are not given in this operator's manual. Speak to your approved servicing dealer.

To prepare	Weekly	Every year	Every third year
Clean the product. Refer to <i>Clean the product on page 32</i> .	X		
Examine the product for damage and wear.	X		
Do an update of the firmware.		O	
Do a check of the servicing messages for recommended upgrades.		O	
Servicing			
Examine the blades and replace the blades and blade screws if it is necessary. Refer to <i>Replacement of the blades on page 33</i> .	X		
Examine and polish the contact plates on the charging station.		X	
Examine and polish the charging plates on the product.		X	
Charge the battery fully before you put the product into storage. Refer to <i>To charge the battery on page 30</i> .		X	
Examine the wheels for wear.		O	
Examine and clean the collision columns. Do a check of the tightening torque on the front and rear collision columns.		O	
Make sure that the product is docking and charging correctly.		O	
Examine the cable and connector to the charging plates on the body of the product.		O	

To prepare	Weekly	Every year	Every third year
Examine the rubber grommets on the chassis to make sure that it is sealed correctly.		○	
Examine the skid plate and skid plate bearing.		○	
Examine the rubber bellows in the cutting height adjustment system.		○	
Examine the rubber bellows for the collision columns.		○	
Replace the rubber bellows for the collision columns.			○
Examine and clean the airflow filter.		○	
Replace the airflow filter.			○
Do a check of the tightening torque of chassis screws.		○	
Open the chassis and replace all sealing strips.			○
Last step			
Use a software service tool to do a function test of the functions of the product.		○	

5.3 Clean the product

It is important to keep the product clean. A product with large amounts of grass stuck to it will not cope as well with slopes. It is recommended to clean using a brush.

Husqvarna recommends to use a special cleaning and maintenance kit, available as an accessory. Contact your Husqvarna representative for more information.

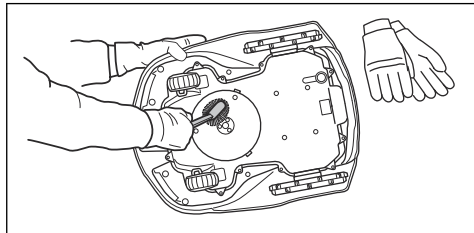


CAUTION: Never use a high-pressure washer to clean the product. Never use solvents for cleaning.

5.3.1 To clean the chassis and blade disc

Examine the blade disc and blades weekly.

1. Set the **Main switch** to the *0* position.
2. Put the product onto its side.
3. Make sure that the blades are not damaged and that the blades and blade disc can rotate freely.
4. Clean the blade disc and chassis with a brush.



5.3.2 To clean the chassis

- Clean the bottom of the chassis with a brush or a moist cloth.

5.3.3 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.

5.3.4 To clean the body of the product

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

5.3.5 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.

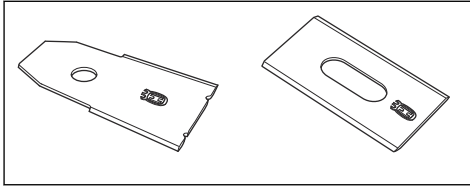
Note: The product cannot enter the charging station if there are objects in the charging station. Clean the charging station regularly.

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

5.4 Replacement of the blades



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

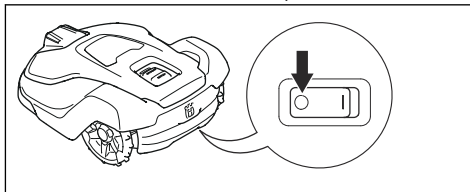


WARNING: You must replace the screws when you replace the blades. The used screws can wear quickly and make the blade come loose, this can cause serious injury.

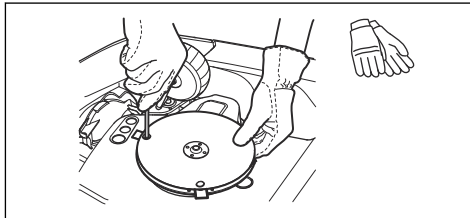
Replace worn or damaged blades for a safe operation. Replace the blades regularly for a satisfactory cut result and a low energy use. All 5 blades and screws must be replaced at the same time to get a balanced cutting system.

5.4.1 To replace the blades

1. Push the **STOP** button.
2. Set the **Main switch** to the 0 position.



3. Put the product with the blade disc up on a soft and clean surface.
4. Rotate the skid plate until its holes align with the screws for the blade.
5. Remove the 5 screws with a screwdriver.

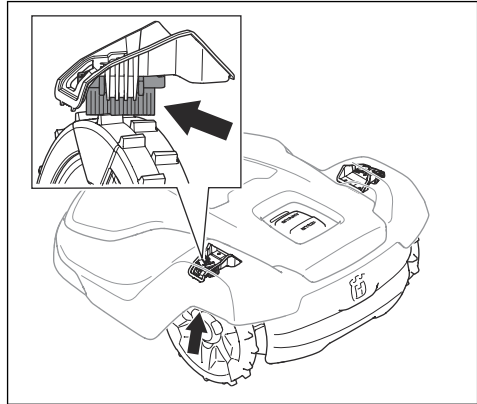


6. Remove the 5 blades.
7. Attach 5 new blades and screws.

8. Make sure that the blades can pivot freely.

5.5 Replace the wheel brushes

The wheel brushes on the product removes grass from the wheels of the product. Examine the wheel brushes regularly and replace them when they are worn. Husqvarna recommends to replace the wheel brushes each 5-10 weeks.



5.6 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.

5.7 Winter service

Take your product to your Husqvarna central 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.

6 Troubleshooting

6.1 Introduction - troubleshooting

All messages can be found in the *Messages* menu in Automower® Connect. More suggestions for steps to take in the event of malfunction or symptoms can be found on www.husqvarna.com.

Note: The *Messages* menu is only available for short-range connectivity (Bluetooth®).

6.2 Fault messages

The list below shows a number of fault messages that may be shown in the app. Speak to your local Husqvarna representative if the same message shows frequently.

Message	Cause	Action
<i>Wheel motor blocked</i>	Grass or other objects is wound around the drive wheel.	Examine the drive wheel and remove the grass or other object.
<i>Cutting system blocked</i>	Grass or other objects is wound around the blade disc.	Examine the blade disc and remove the grass or other object.
	The blade disc are in a pool of water.	Move the product and prevent the collection of water in the work area.
<i>Cutting height blocked</i>	Grass or other objects is wound around the cutting height adjustment, or between the blade disc and chassis.	Examine the blade disc and the bellows around the cutting height adjustment, and remove any grass or other objects that may have got stuck.
<i>Trapped</i>	The product is blocked in a small area behind a number of obstacles.	Examine if there are obstacles which make it hard for the product to move away from this location.

Message	Cause	Action
<i>No loop signal</i>	The power supply or the low-voltage cable is not connected.	Examine the LED status on the charging station. If there is no power to the charging station, the LED is not lit. Examine the power outlet connection and if a residual-current device is engaged. Make sure that the low-voltage cable is connected to the charging station.
	The power supply or the low-voltage cable is damaged.	Replace the power supply or low-voltage cable.
	The boundary wire is not connected to the charging station.	Make sure that the boundary wire connectors are fitted properly to the charging station. Replace connectors if damaged. Refer to <i>To install the boundary wire on page 19</i> .
	Boundary wire broken.	Examine the LED on the charging station. If the LED indicates that there is a break in the boundary wire, find out where the break is. Replace the damaged section of the loop with a new loop wire. Use an original coupler to make a splice of the loop ends. Refer to <i>Finding breaks in the loop wire on page 44</i> .
	<i>ECO mode</i> is activated and the product has attempted to start outside the charging station.	Put the product in the charging station. Start the product. Refer to <i>Start on page 29</i> .
	The boundary wire is crossed on its way to and from an island.	Make sure that the boundary wire is put down correctly. Refer to <i>To install the boundary wire on page 19</i> .
	The product does not find the loop signal from the charging station.	Put the product in the charging station and generate a new loop signal. Refer to <i>New loop signal on page 27</i> .
	Disturbances from metal objects (fences, reinforcement steel) or buried cables close by.	Try to move the boundary wire and/or make more islands in the work area to increase the signal strength.
	The product is too far from the boundary wire.	Redo the installation of the boundary wire so that all parts of the work area is maximum 35 m / 115 ft. from the boundary wire.
<i>Wrong PIN code</i>	An incorrect PIN code has been entered. 5 tries are permitted, and the product is then blocked for a period of time.	Enter the correct PIN code. Speak to your local Husqvarna representative if you forget the PIN code.

Message	Cause	Action
<i>Outside work area</i>	The boundary wire connections to the charging station are crossed.	Make sure that the boundary wire is connected correctly to the charging station. Refer to <i>To install the boundary wire on page 19</i> .
	The boundary wire is too close to the edge of the work area.	Make sure that the boundary wire is put down correctly. Refer to <i>To install the boundary wire on page 19</i> .
	The work area slopes too much by the boundary loop.	
	The boundary wire is laid in the wrong direction around an island.	
	Disturbances from metal objects (fences, reinforcement steel) or buried cables close by.	Try to move the boundary wire and/or make more islands in the work area to increase the signal strength.
	The product finds it hard to distinguish the signal from another product installation close by.	Put the product in the charging station and generate a new loop signal. Refer to <i>New loop signal on page 27</i> .
<i>Empty battery</i>	The product cannot find the charging station.	Change the position of the guide wire. Refer to <i>To install the guide wire on page 19</i> .
		Check the installation settings about how to find the charging station. Refer to <i>To find the charging station on page 24</i> .
	The battery is spent.	Replace the battery. Refer to <i>Battery on page 33</i> .
	The charging station's antenna is defective.	Check if the indicator lamp in the charging station flashes red. Refer to <i>LED indicator lamp on the charging station on page 42</i> . This problem requires action by authorized service technician.
<i>Slipped</i>	The product has hit an obstacle and stopped or the wheels cannot move on the wet grass.	Free the product and rectify the reason for the lack of drive. If it is due to wet grass, wait until the lawn has dried before using the product.
	The work area includes a steep slope.	Maximum guaranteed slope is 45%. Steeper slopes should be isolated. Refer to <i>To put the boundary wire in a slope on page 15</i> .
	The guide wire is not laid at an angle on a slope.	If the guide wire is laid on a slope, it must be laid at an angle across the slope. Refer to <i>To examine where to put the boundary wire on page 14</i> .
<i>Wheel motor overloaded</i>	Grass or other objects is wound around the drive wheel.	Examine the drive wheel and remove grass or other objects.

Message	Cause	Action
<i>Charging station blocked</i>	The contact between the charging plates and contact plates may be poor and the product has made a number of attempts to charge.	Put the product in the charging station and check that the charging plates and contact plates make good contact.
	An object is obstructing the product.	Remove the object.
	The charging station is tilted or bent.	Confirm that the charging station is placed on a fully flat and horizontal ground. The charging station must not be tilted or bent.
<i>Stuck in charging station</i>	The product slips on the baseplate.	Clean the baseplate.
	There is an object in the way of the product preventing it from leaving the charging station.	Remove the object.
<i>Upside down</i>	The product is leaning too much or has turned over.	Turn the product the right way up.
<i>Mower tilted</i>	The product is tilted more than the maximum angle.	Move the product to a flat area.
<i>Needs manual charging</i>	The product is set to the <i>Secondary area</i> operating mode.	Place the product in the charging station. This behavior is normal and no action is required.
<i>Next start hh:mm</i>	The schedule setting prevents the product from operating.	Change the schedule settings. Refer to <i>Schedule on page 22</i> .
	The clock on the product is not correct.	Set the time. Refer to <i>Time & date on page 27</i> .
<i>Lifted</i>	The lift sensor is engaged because the product hit an object or/and is blocked.	Free the product. If the problem stays, speak to your approved servicing dealer.
<i>Collision sensor problem, front/rear</i>	The body of the product can not move freely around its chassis.	Remove dirt or objects between the chassis and the body to make sure that the body can move freely around the chassis.
	The product has become stuck.	Free the product and rectify the reason.
<i>Wheel motor blocked right/left</i>	Grass or other object is wrapped around the drive wheel.	Clean the wheels and around the wheels.
<i>Alarm! Mower switched off</i>	The alarm was activated because the product was switched OFF.	Adjust the mower security settings in the <i>Security</i> menu. Refer to <i>Security (Bluetooth® only) on page 27</i> .
<i>Alarm! Mower stopped</i>	The alarm was activated because the product was stopped.	
<i>Alarm! Mower lifted</i>	The alarm was activated because the product was lifted.	
<i>Alarm! Mower tilted</i>	The alarm was activated because the product was tilted.	

Message	Cause	Action
<i>Electronic problem</i>	Temporary electronic or firmware related issue in the product.	Restart the product. If the problem stays, speak to your approved servicing dealer.
<i>Loop sensor problem, front/rear</i>		
<i>Tilt sensor problem</i>		
<i>Temporary problem</i>		
<i>Wheel drive problem, right/left</i>		
<i>Invalid device combination</i>		
<i>Ultrasonic problem</i>		
<i>GPS navigation problem</i>		
<i>Temporary battery problem</i>		
<i>Faulty mix of batteries</i>		
<i>Charging system problem</i>	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.
<i>Battery problem</i>	Temporary battery or firmware related issue in the product.	Restart the product. If the problem stays, speak to your approved servicing dealer.
	Wrong type of battery	Use only original batteries recommended by the manufacturer.
<i>Battery temperature outside limits</i>	The product does not operate if the battery temperature is too high or too low.	The product starts to operate again when the temperature is between the set limits and the schedule settings let the product to operate. Make sure that the charging station is put in an area with protection from the sun.
<i>Charging current too high</i>	Wrong or faulty power supply unit.	Restart the product. If the problem stays, speak to your approved servicing dealer.
<i>Connectivity problem</i>	Potential problem on the connectivity circuit board in the product.	Restart the product. If the problem stays, speak to your approved servicing dealer.
<i>Cutting system major imbalance</i>	There is vibrations in the blade disc.	Continued operation can cause damage to the cutting system. 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.

6.3 Information messages

The list below shows a number of information messages that may be found in the *Messages* menu in the Automower® Connect app. Contact your local Husqvarna representative if the same message appears often.

Message	Cause	Action
<i>Low battery</i>	The product cannot find the charging station.	Change the position of the guide wire. Refer to <i>To install the guide wire on page 19</i> .
		Make sure that the installation settings about how to find the charging station is correct. Refer to <i>To find the charging station on page 24</i> .
	The battery is spent.	Replace the battery. Refer to <i>Battery on page 33</i> .
	The charging station's antenna is defective.	Check if the indicator lamp in the charging station flashes red. Refer to <i>LED indicator lamp on the charging station on page 42</i> . This problem requires action by authorized service technician.
<i>Settings restored</i>	Confirmation that a <i>Reset all user settings</i> has been carried out.	This is normal. No action required.
<i>Limited cutting height</i>	The cutting height adjustment cannot move.	Examine the cutting height adjustment and remove grass or other objects. If the problem stays, speak to your approved servicing dealer.
<i>Unexpected cutting height adj</i>		
<i>Limited cutting height range</i>		
<i>Cutting height problem</i>		
<i>Cutting height blocked</i>		
<i>Cutting system imbalance</i>	The product has discovered vibrations in the blade disc.	Verify that the blades and screws are intact and not worn out. Verify that all blades are correctly mounted. Check that no double blades are mounted on any of the three blade positions.
<i>Slope too steep</i>	The product stopped because the slope is too steep.	Change the installation of the boundary wire to not include this steep part of the work area. Refer to <i>To install the boundary wire on page 19</i> .
<i>Guide 1 not found</i> <i>Guide 2 not found</i> <i>Guide 3 not found</i>	The guide wire is not connected to the charging station.	Check that the guide wire's connector is tightly connected to the charging station. Refer to <i>To install the guide wire on page 19</i> .
	Break in the guide wire.	Find out where the break is. Replace the damaged section of the guide wire with a new loop wire and splice using an original coupler.
	The guide wire is not connected to the boundary loop.	Check that the guide wire is connected correctly to the boundary loop. Refer to <i>To install the guide wire on page 19</i> .

Message	Cause	Action
<i>Guide calibration failed</i>	The product has failed to calibrate the guide wire.	Check that the guide wires are installed according to the instructions. Refer to <i>To install the guide wire on page 19</i> . The next time the product moves out from the charging station, a new guide calibration is done.
<i>Guide calibration accomplished</i>	The product has succeeded to calibrate the guide wire.	No action required.
<i>GPS navigation problem</i>	Problem with the GPS assisted navigation equipment.	Contact your local Husqvarna representative if this message appears often.
<i>Weak GPS signal</i>	The sky is blocked in large parts of the work area.	If possible, remove objects that can cause a blockage of the GPS signal.
		Disable the GPS navigation function and use the lawn coverage function. Refer to <i>Lawn coverage on page 25</i> .
<i>Difficult finding home</i>	The product has been following the boundary wire several laps without finding the charging station.	The installation has not been done correctly. Refer to <i>Installation on page 24</i> .
		Wrong corridor width setting on boundary wire. Refer to <i>Corridor width on page 26</i> .
		The product was started on a Secondary area with the Main area setting.
<i>Temporary problem with the server.</i>	Please try again.	Contact your local Husqvarna representative if this message appears often.
<i>Connection problems</i>	Problem with the Automower® Connect module	Restart the product. If there still is a connection problem, try to unpair the product (<i>My mowers</i>) and then pair it again. If the problem remains, contact your local Husqvarna representative.
<i>Connection settings restored</i>	Settings for wireless connectivity have been restored due to an error.	Check and revise settings if necessary.
<i>SIM card requires PIN</i>	The SIM card must be unlocked.	Make sure the correct SIM PIN has been entered into the mower's menu (Network > SIM card). Contact your local Husqvarna representative if this message appears often.
<i>SIM card locked</i>	The SIM card must be replaced.	Contact your local Husqvarna representative.
<i>SIM card not found</i>	Automower® Connect requires a SIM card to be inserted in the mower.	Contact your local Husqvarna representative.
<i>GeoFence problem</i>	The GeoFence is not work due to poor (or no) communication with the system.	Contact your local Husqvarna representative.

6.4 LED indicator lamp on the charging station

For a fully functional installation, the indicator lamp in the charging station must emit a solid or flashing green light. If any other color than green is visible, follow the troubleshooting guide below.

There is more help on www.husqvarna.com. If you still need help, please contact your local Husqvarna representative.

Light	Cause	Action
Green solid light	Good signals	No action required
Green flashing light	The signals are good and <i>ECO mode</i> is activated.	No action required. For more information on <i>ECO mode</i> . Refer to <i>ECO mode on page 24</i> .
Blue flashing light	The boundary loop is not connected to the charging station.	Check that the boundary wire connectors are fitted properly to the charging station. Refer to <i>To install the boundary wire on page 19</i> .
	Break in the boundary loop.	Find out where the break is. Replace the damaged section of the loop with a new loop wire and splice using an original coupler.
Red flashing light	Interruption in the charging station's antenna.	Contact your local Husqvarna representative.
Red solid light	Fault in the circuit board or incorrect power supply in the charging station. The fault should be rectified by an authorized service technician.	Contact your local Husqvarna representative.

6.5 LED indicator lamp on the product

There is a LED indicator lamp on top of the product, which shows the current status:

Light	Cause	Action
Green solid light	The product is either mowing the lawn, or leaving the charging station.	No action required.
Blue solid light	The product is either paused, parked, charging or is searching for the charging station.	No action required.
Yellow solid light	The STOP button has been pressed.	Press the START button on top of the product to start it again.
Red solid light	The product has stopped due to an error.	Clear the error by pressing the STOP button, and then activate the product by pressing the START button on top of the product.
Yellow flashing light	The product requests the PIN code.	The PIN code needs to be confirmed in the Automower® Connect app before the product can be activated.

There is more help on www.husqvarna.com. If you still need help, please contact your local Husqvarna representative.

6.6 Symptoms

If your product does not work as expected, follow the symptoms guide below.

There is a FAQ (Frequently Asked Questions) on www.husqvarna.com which provides more detailed answers to a number of standard questions. Contact your local Husqvarna representative if you still cannot find the reason for the fault.

Symptoms	Cause	Action
The product has difficulty docking.	The boundary wire is not laid in a long straight line that is far enough out from the charging station.	Check that the charging station has been installed correctly. Refer to <i>To install the charging station on page 18</i>
	The charging station is on a slope.	Place the charging station on a surface that is entirely level. Refer to <i>To examine where to put the charging station on page 13</i> .
The product runs at the wrong time	The product clock needs to be set.	Set the clock. Refer to <i>Time & date on page 27</i> .
	The start and stop times for mowing are incorrect.	Reset the start time and stop time settings for mowing. Refer to <i>Schedule on page 22</i> .
The product vibrates.	Damaged blades lead to imbalance in the cutting system.	Inspect the blades and screws and replace them if necessary. Refer to <i>Replacement of the blades on page 33</i> .
	Too many blades in the same position lead to imbalance in the cutting system.	Check that only one blade is fitted at each screw.
	Different versions (thickness) of Husqvarna blades are used.	Check if the blades are of different versions.
The product runs, but the blade disc does not rotate.	The product searches for the charging station.	No action. The blade disc does not rotate when the product is searching for the charging station.
The product mows for shorter periods than usual between charges.	Grass or other foreign object blocks the blade disc.	Remove and clean the blade disc. Refer to <i>To clean the chassis and blade disc on page 32</i> .
	The battery is spent.	Replace the battery. Refer to <i>Battery on page 33</i> .
Both the mowing and charging times are shorter than usual.	The battery is spent.	Replace the battery. Refer to <i>Battery on page 33</i> .
The product is parked for hours in the charging station.	The product is parked due to a schedule setting, or because <i>Park until further notice</i> has been chosen in the app.	Open the app and edit the schedule settings, or go to <i>Dashboard</i> and start the product.
	The product does not operate if the battery temperature is too high or too low.	The product starts to operate again when the temperature is between the set limits and the schedule settings let the product to operate. Make sure that the charging station is put in an area with protection from the sun.
The product often moves in circles or spirals.	Spiral cutting is a natural part of the product's movement patter.	Adjust the intensity of spiral cutting. This function can be disabled if necessary. Refer to <i>Spiral cutting on page 23</i> .

Symptoms	Cause	Action
The product turns round and stays on a small area for several minutes.	This is completely normal for the product. The product have GPS assisted navigation that contributes to an even result.	No action.
Uneven mowing results.	The product works too few hours per day.	Increase the mowing time. Refer to <i>Schedule on page 22</i> . The <i>Weather timer</i> senses that the lawn has been mowed more than it actually has. Increase the intensity level in the <i>Weather timer</i> . Disable the <i>Weather timer</i> if this does not help.
	The settings for the <i>Lawn coverage</i> function are incorrect in relation to the layout of the work area. Note: Not applicable if GPS assisted navigation is enabled.	Do a check of the settings for the <i>Lawn coverage</i> function. Refer to <i>Lawn coverage on page 25</i> .Lawn coverage.
	The shape of the work area requires the use of <i>Area 1-5</i> for the product to find its way to all remote areas. Note: Not applicable if GPS assisted navigation is enabled.	Use <i>Area 1-5</i> to steer the product to a remote area. Refer to <i>Lawn coverage on page 25</i> .
	Work area is too large.	Try to limit the work area, or to extend the work time. Refer to <i>Schedule on page 22</i> .
	Dull blades.	Replace all the blades. Refer to <i>Replacement of the blades on page 33</i> .
	Long grass in relation to the set cutting height.	Increase the cutting height and then successively lower it.
	Accumulation of grass by the blade disc or around the motor shaft.	Check that the blade disc rotates freely and easily. If not, screw off the blade disc and remove grass and foreign objects. Refer to <i>To clean the chassis and blade disc on page 32</i> .

6.7 Finding breaks in the loop wire

Breaks in the loop wire are usually the result of unintentional physical damage to the wire such as when gardening with a shovel. In countries with ground frost, also sharp stones that move in the ground can damage the wire. Breaks can also occur due to the wire being stretched excessively during installation.

Mowing the grass too low right after the installation can damage wire insulation. Damage to the insulation may not cause disruptions until several weeks or months later.



CAUTION: Always select the maximum cutting height the first weeks after installation and then lower the height one step at a time every second week until the desired cutting height has been reached.

A defective splicing of the loop wire can also lead to disruptions several weeks after the splice was done.

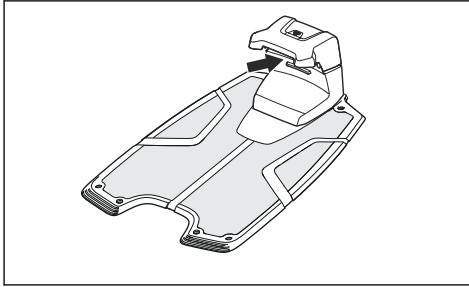
A faulty splice can, for example, be the result of the coupler not being pressed together hard enough with a pair of pliers, or that a coupler of lower quality than the original coupler has been used.

Note: Please first check all known splices before further troubleshooting is done.

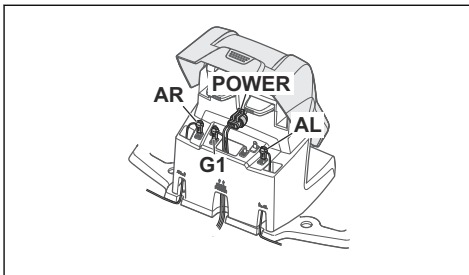
A wire break can be located by gradually halving the distance of the loop where the break may have occurred until there is only a very short section of the wire left.

The following method does not work if *ECO mode* is activated. Make sure first that *ECO mode* is turned off. Refer to *ECO mode on page 24*.

1. Check that the indicator lamp in the charging station flashes blue, which indicates a break in the boundary loop. Refer to *LED indicator lamp on the charging station on page 42*.



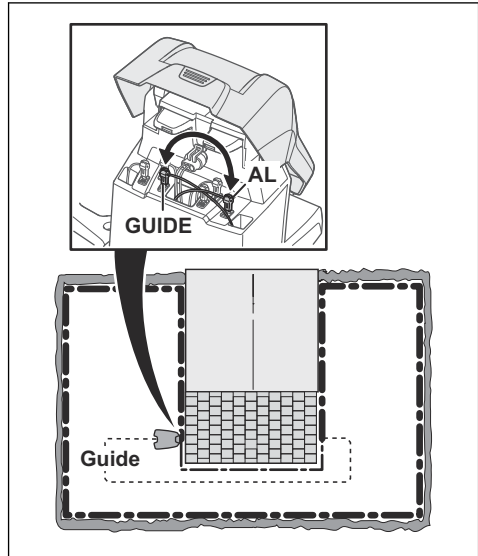
2. Check that the boundary wire connections to the charging station are properly connected and not damaged. Check that the indicator lamp in the charging station is still flashing blue.



3. Switch the connections between the guide wire and the boundary wire in the charging station.

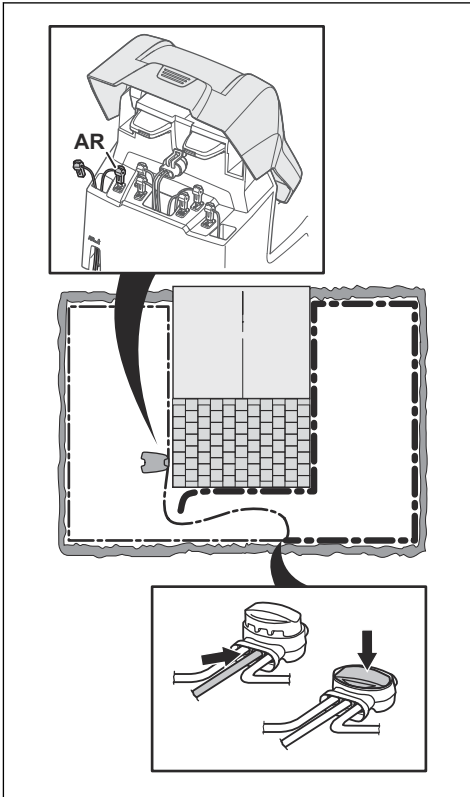
Start by switching connection AL and G1. Some models have additional guide wires. The same procedure can be followed for them.

If the indicator lamp is lit with a solid green light, then the break is somewhere on the boundary wire between AL and the point where the guide wire is connected to the boundary wire (thick black line in the illustration).

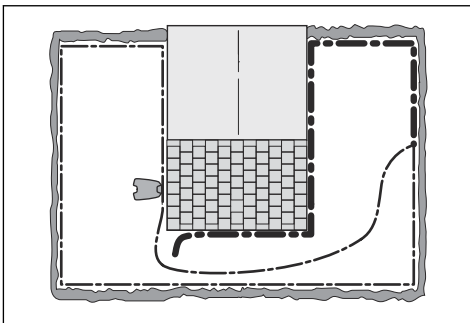


To rectify the fault you will need boundary wire, connector(s) and coupler(s):

- a) If the suspected boundary wire is short then it is easiest to exchange all of the boundary wire between AL and the point where the guide wire is connected to the boundary wire (thick black line).
- b) If the suspected boundary wire is long (thick black line) then do as follows: Put AL and G1 back to their original positions. Then disconnect AR. Connect a new loop wire to AR. Connect the other end of this new loop wire at the middle of the suspected wire section.

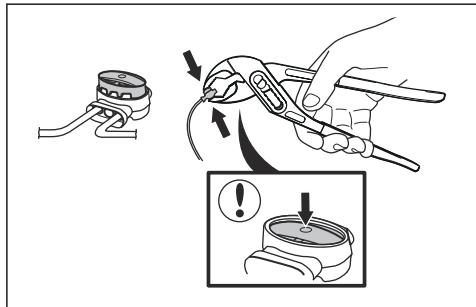


If the indicator lamp now is green, then the break is somewhere in the wire between the disconnected end to the point where the new wire is connected (thick black line below). In that case, move the connection for the new wire closer to the disconnected end (roughly at the middle of the suspected wire section) and check again if the indicator lamp is green.



Continue until only a very short section of the wire remains which is the difference between a solid green light and a flashing blue light. Then follow instruction in step 5 below.

4. If indicator lamp still flashes blue in step 3 above: Put AL and G1 back in their original positions. Then switch AR and G1. If indicator lamp now is lit with a solid green light then disconnect AL and connect a new boundary wire to AL. Connect the other end of this new wire at the middle of the suspected wire section. Follow the same approach as in 3a) and 3b) above.
5. When the break is found, the damaged section must be replaced with a new wire. Always use original couplers.



7 Transportation, storage and disposal

7.1 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.

7.2 Storage

- Fully charge the product. Refer to *To charge the battery on page 30*.
- Disconnect the product with the **main switch**. Refer to *To set the product to OFF on page 30*.
- Clean the product. Refer to *Clean the product on page 32*.
- Keep the product in a dry, frost free space.
- Keep the product with all wheels on level ground during storage, or use a Husqvarna wall hanger.
- If you keep the charging station indoors, disconnect and remove the power supply and all the connectors from the charging station. Put the end of each connector wire in a container with grease.

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

7.3 Disposal

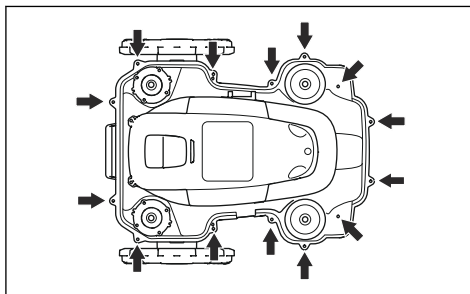
- Obey the local recycling requirements and applicable regulations.
- For questions about how to remove the battery, refer to *To remove the battery on page 47*.

7.3.1 To remove the battery

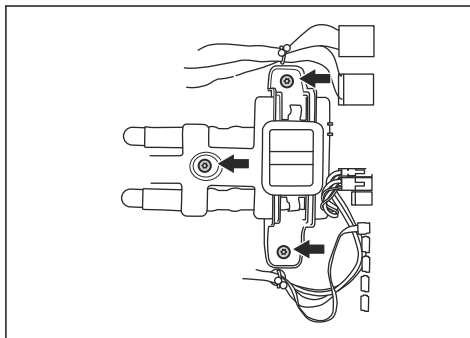


CAUTION: Only remove the battery when you dispose the product. When you remove the warranty seal, the Husqvarna warranty is no longer applicable.

1. Disconnect the product with the **Main switch**. Refer to *To set the product to OFF on page 30*.
2. Pull out the grommet on the charging cable at the very front of the product, and carefully remove the connector.
3. Lift the cover, one corner at a time.
4. Remove the 14 screws with a Torx 20.



5. Lift the rear edge of the top section of the chassis.
6. Disconnect the cable from the main circuit board.
7. Remove the top section of the chassis.
8. Remove the 3 screws that holds the battery with a Torx 20.



9. Disconnect the battery connection from the main circuit board.
10. Open the battery cover and remove the battery.

8 Technical data

8.1 Technical data

Dimensions	Automower® 520	Automower® 550
Length, cm / in.	72 / 28.3	72 / 28.3
Width, cm / in.	56 / 22	56 / 22
Height, cm / in.	31 / 12	31 / 12
Weight, kg / lb	13.3 / 29.3	12.9 / 28.4

Electrical system	Automower® 520	Automower® 550
Battery, Lithium-Ion 18.5 V/4.0 Ah Art. No.	593 11 41-06	
Battery, Lithium-Ion 18 V/5.2 Ah Art. No.		588 14 64-01 (2 pcs.) 5.2 Ah/ battery
Battery, Lithium-Ion 18V, 4.0 Ah, Art. No	593 11 41-02, 593 11 42-01, 593 11 41-04, 580 68 33-03, 593 11 41-05, 593 11 41-08	
Battery, Lithium-Ion 18.25V, 4.0 Ah, Art. No	593 11 41-03, 593 11 42-02, 580 68 33-04	
Battery, Lithium-Ion 18V, 5.0 Ah, Art. No		593 11 84-01, 593 11 84-03, 588 14 64-02, 593 11 84-04, 593 11 84-05, 593 11 84-06 (2 pcs.) 5.0 Ah/battery
Battery, Lithium-Ion 18V, 4.9 Ah, Art. No		593 11 84-02, 588 14 64-03 (2 pcs.) 4.9 Ah/bat-tery
Power supply (28V DC), V AC	100-240	100-240
Low-voltage cable length, m / ft	10 / 33	10 / 33
Mean energy consumption at maximum use	17 kWh/month	23 kWh/month
Charging current, A DC	2.2	7
Type of Power Supply Unit ⁶	ADP-60JR XX, FW7438/28/D/XX/Y	ADP-200JR XX, FW7458/28/D/XX/Y
Average mowing time, min	75	270
Average charging time, min	50	60

⁶ XX, YY can be any alphanumeric characters or blank for marketing purpose only, no technical differences.

Boundary wire antenna	Automower® 520	Automower® 550
Operating Frequency Band, Hz	100-80000	100-80000
Maximum magnetic field ⁷ , dBuA/m	82	82
Maximum Radio-frequency power ⁸ , mW @60m	<25	<25

Sound data ⁹	Automower® 520	Automower® 550
Sound level, perceived, dB (A)	64	65
Measured sound power noise level, dB (A)	64	65
Noise emissions uncertainties K_{WA} , dB (A)	3	2
Sound pressure noise level at the operator's ear ¹⁰ , dB (A)	56	57

Mowing	Automower® 520	Automower® 550
Cutting system	5 pivoted cutting blades	
Maximum cutting motor speed, rpm	2300	2300
Power consumption during cutting, W +/- 20 %	30	35
Cutting height, cm / in.	2-6 / 0.8-2.4	2-6 / 0.8-2.4
Cutting width, cm / in.	24 / 9.4	24 / 9.4
Narrowest possible passage, cm / in.	60 / 24	60 / 24
Maximum slope for cutting area, %	45	45
Maximum slope for boundary wire, %	15	15
Maximum length boundary wire, m / ft	800 / 2600	800 / 2600
Maximum length guide loop ¹¹ , m / ft	400 / 1300	400 / 1300
Maximum distance to boundary wire, m / ft	35 / 115	35 / 115
Working area capacity, pro sports quality	1700 / 0.4	3500 / 0.9
Working area capacity, pro quality	2400 / 0.6	5000 / 1.25
Working area capacity, regular quality	3000 / 0.75	6000 / 1.5

IP-code	Automower® 520	Automower® 550
Robotic lawn mower	IPX4	IPX4
Charging station	IPX1	IPX1
Power supply	IP44	IP44

⁷ Measured according to EN 303 447.

⁸ Maximum active output power to antennas in the frequency band in which the radio equipment operates.

⁹ 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.

¹⁰ Sound pressure noise uncertainties K_{pA} , 2-4 dB (A).

¹¹ The guide loop is the loop that if formed by the guide wire and the part of the boundary wire from the junction with the guide wire to the right connection in the charging station.

Frequency Band Support	
Bluetooth® Frequency range	2400.0-2483.5 MHz
Automower® Connect 2G	GSM 850 MHz, E-GSM 900 MHz, DCS 1800 MHz, PCS 1900 MHz
Automower® Connect 3G	Band 19 (800 MHz), Band 5 (850 MHz), Band 8 (900 MHz), Band 2 (1900 MHz), Band 1 (2100 MHz)
Automower® Connect 4G	Band 12 (700 MHz), Band 17 (700 MHz), Band 28 (700 MHz), Band 13 (700 MHz), Band 20 (800 MHz), Band 26 (850 MHz), Band 5 (850 MHz), Band 19 (850 MHz), Band 8 (900 MHz), Band 4 (1700 MHz), Band 3 (1800 MHz), Band 2 (1900 MHz), Band 25 (1900 MHz), Band 1 (2100 MHz), Band 39 (1900 MHz)

Power Class		
Bluetooth® Output power	8 dBm	
Automower® Connect 2G	Power Class 4 (GSM/E-GSM)	33 dBm
	Power Class 1 (DCS/PCS)	30 dBm
	Power Class E2 (GSM/E-GSM)	27 dBm
	Power Class E2 (DCS/PCS)	26 dBm
Automower® Connect 3G	Power Class 3	24 dBm
Automower® Connect 4G	Power Class 3	23 dBm

Deviations from this general technical data are included in the country specific chapters.

Full compatibility cannot be guaranteed between the product and other types of wireless systems such as remote controls, radio transmitters, hearing loops, buried electric animal fencing or similar.

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

8.2 Registered trademarks

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

9 Original EU Declaration of Conformity

EU Declaration of Conformity

ROB-P20-22-1E

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

Description	Robotic lawn mower
Brand	HUSQVARNA
Type / Model	HUSQVARNA AUTOMOWER® 520 and 550
Identification	Serial numbers dating from 2022 week 46

complies fully with the following EU directives and regulations:

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;

EN 60335-1:2012+AC:2014+A11:2014+A13:2017
EN 50636-2-107:2015+A1:2018+A2:2020
EN IEC 63000:2018
EN 61000-6-1:2007
EN 61000-6-3:2007+A1:2011+AC:2012
ETSI EN 301 489-1 V2.2.3
ETSI EN 301 489-3 V2.1.1
ETSI EN 301 489-17 V3.2.4
ETSI EN 303 447 V1.3.1
ETSI EN 300 328 V2.2.2

and for HUSQVARNA AUTOMOWER® equipped with Automower Connect 3G/2G:

ETSI EN 301 489-52 V1.2.1
ETSI EN 301 489-19 V2.1.1
ETSI EN 301 908-1 V15.1.1
ETSI EN 301 908-2 V13.1.1
ETSI EN 301 511 V.12.5.1
ETSI EN 303 413 V1.2.1

for HUSQVARNA AUTOMOWER® equipped with Automower Connect 4G/2G:

ETSI EN 301 489-52 V1.2.0
ETSI EN 301 489-19 V2.1.1
ETSI EN 301 908-1 V15.1.1
ETSI EN 301 908-13 V13.1.1
ETSI EN 301 511 V.12.5.1
ETSI EN 303 413 V1.2.1

Manne Alzén

Manne Alzen (0427, 2022.11.10 09:41+2)

Manne Alzén
Huskvarna

Director Pro Robotics R&D
Husqvarna AB, Husqvarna Division
Responsible for technical documentation



10 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	Robotic lawn mower
Brand	Husqvarna
Type/Model	HUSQVARNA AUTOMOWER® 520/550
Identification	Serial numbers dating from 2022 week 46

complies fully with the following EU directives and
regulations:

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 harmonized standards and/or
technical specifications are applied;

- EN 60335-1:2012+AC:2014+A11:2014+A13:2017
- EN 50636-2-107:2015+A1:2018+A2:2020
- EN IEC 63000:2018
- EN 61000-6-1:2007
- EN 61000-6-3:2007+A1:2011+AC:2012
- ETSI EN 301 489-1 V2.2.3
- ETSI EN 301 489-3 V2.1.1
- ETSI EN 301 489-17 V3.2.4
- ETSI EN 303 447 V1.3.1
- ETSI EN 300 328 V2.2.2

Director Pro Robotics R&D. Husqvarna AB, Husqvarna
Division. Responsible for technical documentation.



and for HUSQVARNA AUTOMOWER® equipped with
Automower Connect 3G/2G:

- ETSI EN 301 489-52 V1.2.1
- ETSI EN 301 489-19 V2.1.1
- ETSI EN 301 908-1 V15.1.1
- ETSI EN 301 908-2 V13.1.1
- ETSI EN 301 511 V.12.5.1
- ETSI EN 303 413 V1.2.1

for HUSQVARNA AUTOMOWER® equipped with
Automower Connect 4G/2G:

- ETSI EN 301 489-52 V1.2.0
- ETSI EN 301 489-19 V2.1.1
- ETSI EN 301 908-1 V15.1.1
- ETSI EN 301 908-13 V13.1.1
- ETSI EN 301 511 V.12.5.1
- ETSI EN 303 413 V1.2.1

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Huskvarna

11 Original UK Declaration of Conformity

Declaration of Conformity

ROB-P2C-22-1U

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	HUSQVARNA
Type / Model	HUSQVARNA AUTOMOWER® 520 and 550
Identification	Serial numbers dating from 2022 week 46

complies fully with the following UK regulations:

Regulation
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;

EN 60335-1:2012+AC:2014+A11:2014+A13:2017
EN 50636-2-107:2015+A1:2018+A2:2020
EN IEC 63000:2018
EN 61000-6-1:2007
EN 61000-6-3:2007+A1:2011+AC:2012
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ETSI EN 303 413 V1.2.1

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Director Pro Robotics R&D
Husqvarna AB, Husqvarna Division
Responsible for technical documentation

**UK
CA**

UK Importer:
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Aycliffe, County Durham
UK DL5 6UP



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Original instructions



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2022-11-23