



Operator's manual
HUSQVARNA AUTOMOWER®
EPOS



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 Introduction

Serial number:

PIN code:

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

1.1 Support

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

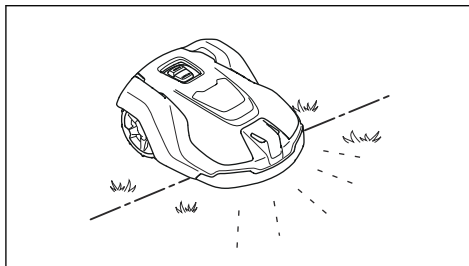
1.2 System description

The EPOS system contains a robotic lawn mower, a charging station and a reference station. The robotic lawn mower and the reference station receives satellite signals for positioning. The reference station is stationary and sends correction data to the robotic lawn mower to get a accurate position. The work area for the product is made virtually in an app by operating the product and add set points to make a map in an app. Refer to *System overview on page 4*.

1.3 Product description

Note: Husqvarna regularly updates the appearance and function of the products. Refer to *Support on page 3*.

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

1.3.1 Mowing technique

The product is emission free, easy to use and saves energy. The frequent cutting technique improves the grass quality and decreases the use of fertilizers. Collection of grass is not necessary.

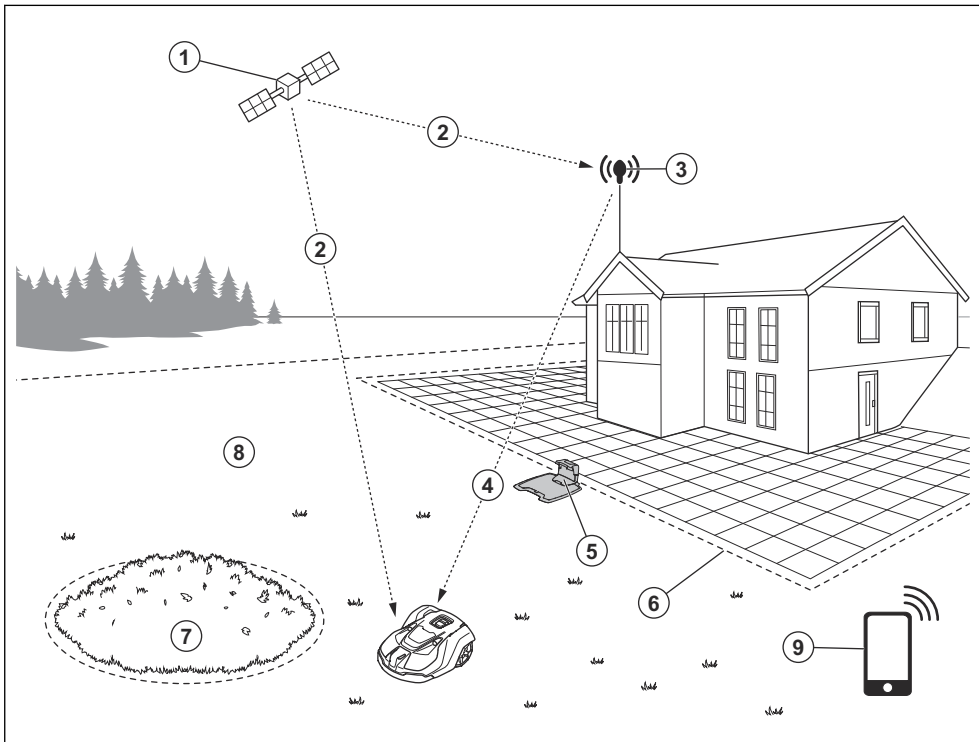
1.3.2 Find the charging station

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 34*.

1.3.3 Connectivity

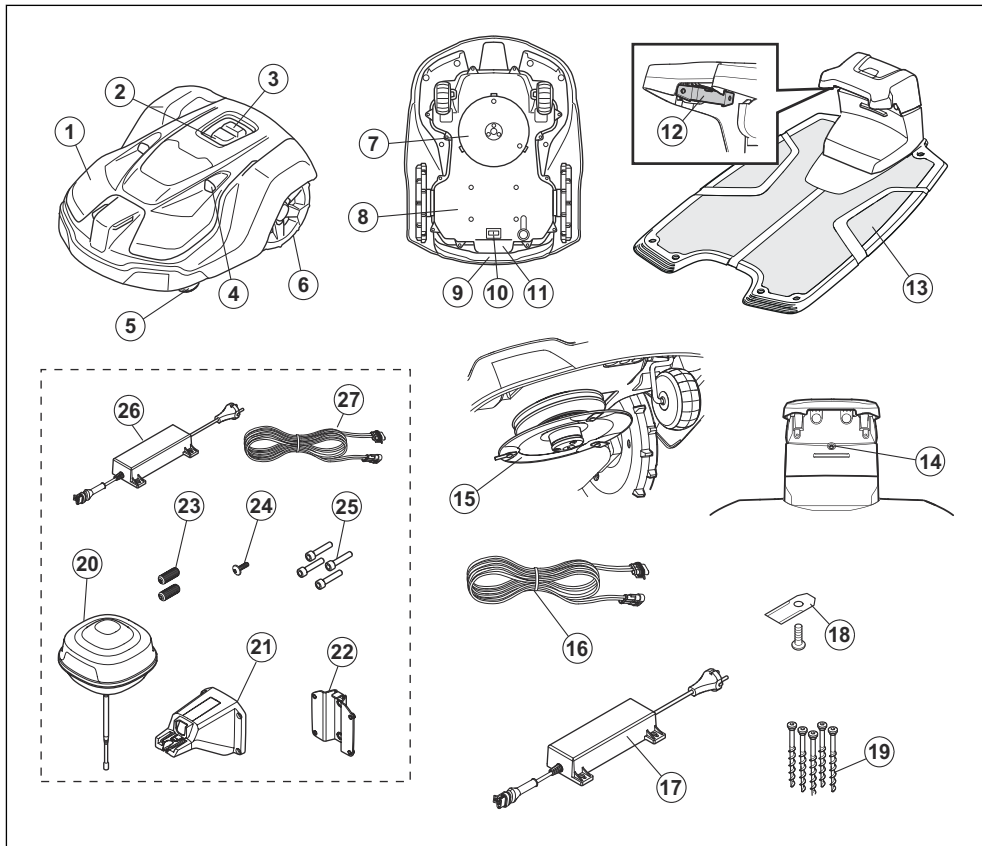
To communicate and make settings for this product 2 mobile applications are used. The EPOS app is used for the installation of the product and communicates with Bluetooth®. For operation of the product the Automower® Connect app is used. Automower® Connect communicates with Bluetooth® and cellular connectivity.

1.4 System overview



1. Navigation satellites
2. Satellite signals
3. Reference station
4. Correction data
5. Charging station
6. Virtual boundary
7. Stay-out zone
8. Work area
9. Mobile device

1.5 Product overview



- | | |
|---|--|
| <ol style="list-style-type: none"> 1. Body 2. LED indicator lamp of the product 3. STOP/START button 4. Ultrasonic sensors 5. Front wheels 6. Rear wheels 7. Cutting system 8. Chassis box with electronics, battery and motors 9. Handle 10. Main switch | <ol style="list-style-type: none"> 11. Rating plate (including product identification code) 12. Contact strips 13. Charging station 14. LED indicator lamp of the charging station 15. Blade disc 16. Low voltage cable 17. Power supply ¹ 18. Extra blades 19. Screws for securing the charging station 20. Reference station 21. Arm |
|---|--|

¹ The appearance may differ depending on market

22. Plate for post attachment ²
23. Screws for installation of the reference station on a post
24. Screw for installation of the reference station
25. Screws for installation of the reference station on a wall
26. Power supply ³
27. Low voltage cable

Technical data on page 60 and on the rating plate.



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

1.6 Symbols on the product

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



WARNING: Read the user instructions before operating the product.



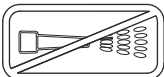
WARNING: Disable the product before working on or lifting the product.



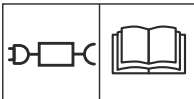
WARNING: Keep a safe distance from the product when operating. Keep your hands and feet away from the rotating blades.



WARNING: Do not ride on the product. Never put your hands or feet close to or under the product.



Never 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 conforms to the applicable EC Directives.



Noise emission to surroundings. The product's emissions are set out in



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 warranty 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.

1.7 Symbols in the EPOS app



The battery level symbol shows the battery state of charge.



The radio signal symbol shows the radio signal strength from the reference station. The filled circles shows the strength of the signal.



The position symbol shows the level of accurate position of the product. All circles must be filled for an automatic operation of the product.

² 2 dimensions are included

³ The appearance may differ depending on market

1.8 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)



Automower® Connect is where the operator enables and disables the

Automower® Connect module on the product. (Only available for Bluetooth® short-range connectivity)

1.9 Symbols on the battery



Read the user instructions.



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



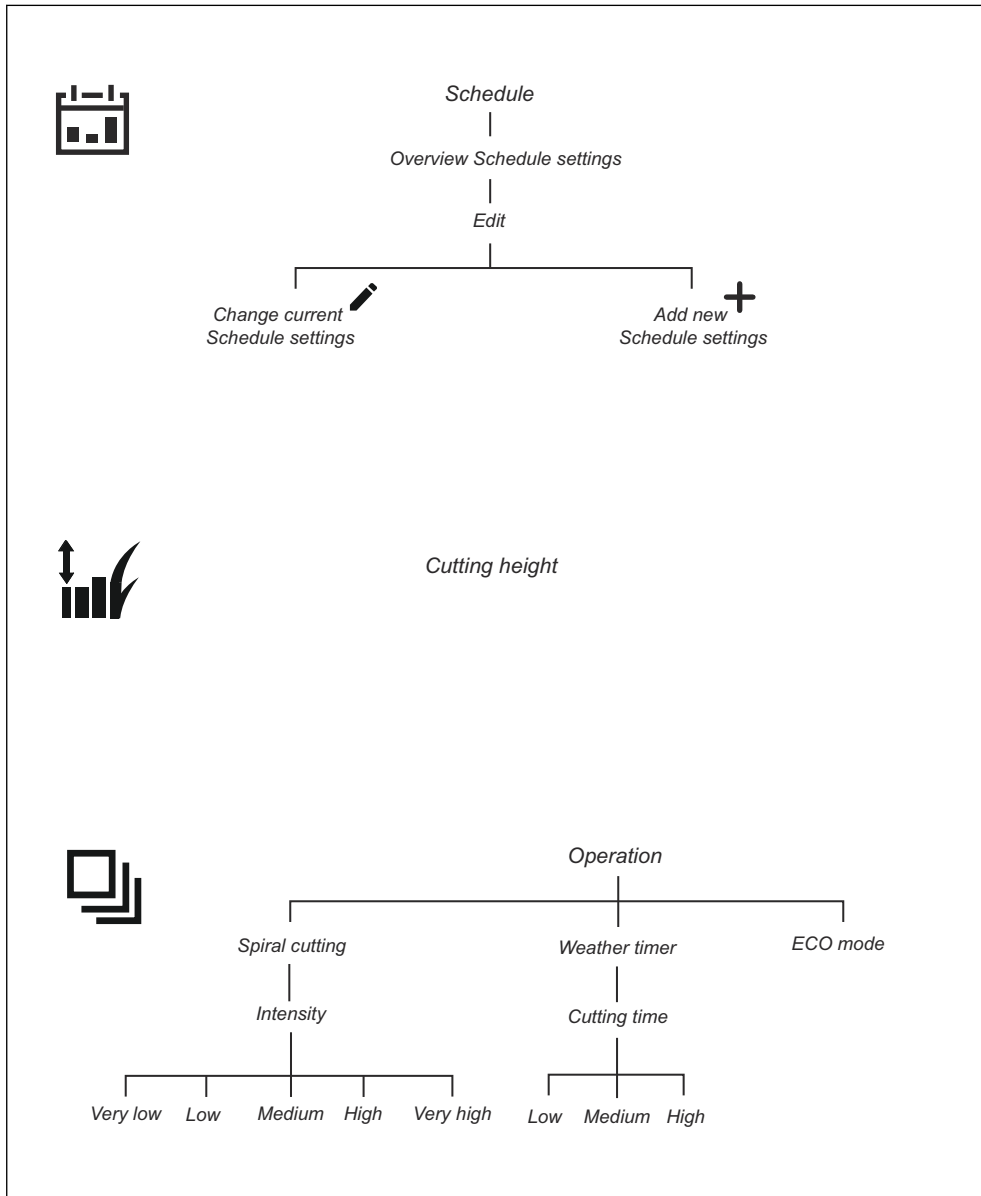
Do not immerse the battery into water.

1.10 General safety instructions

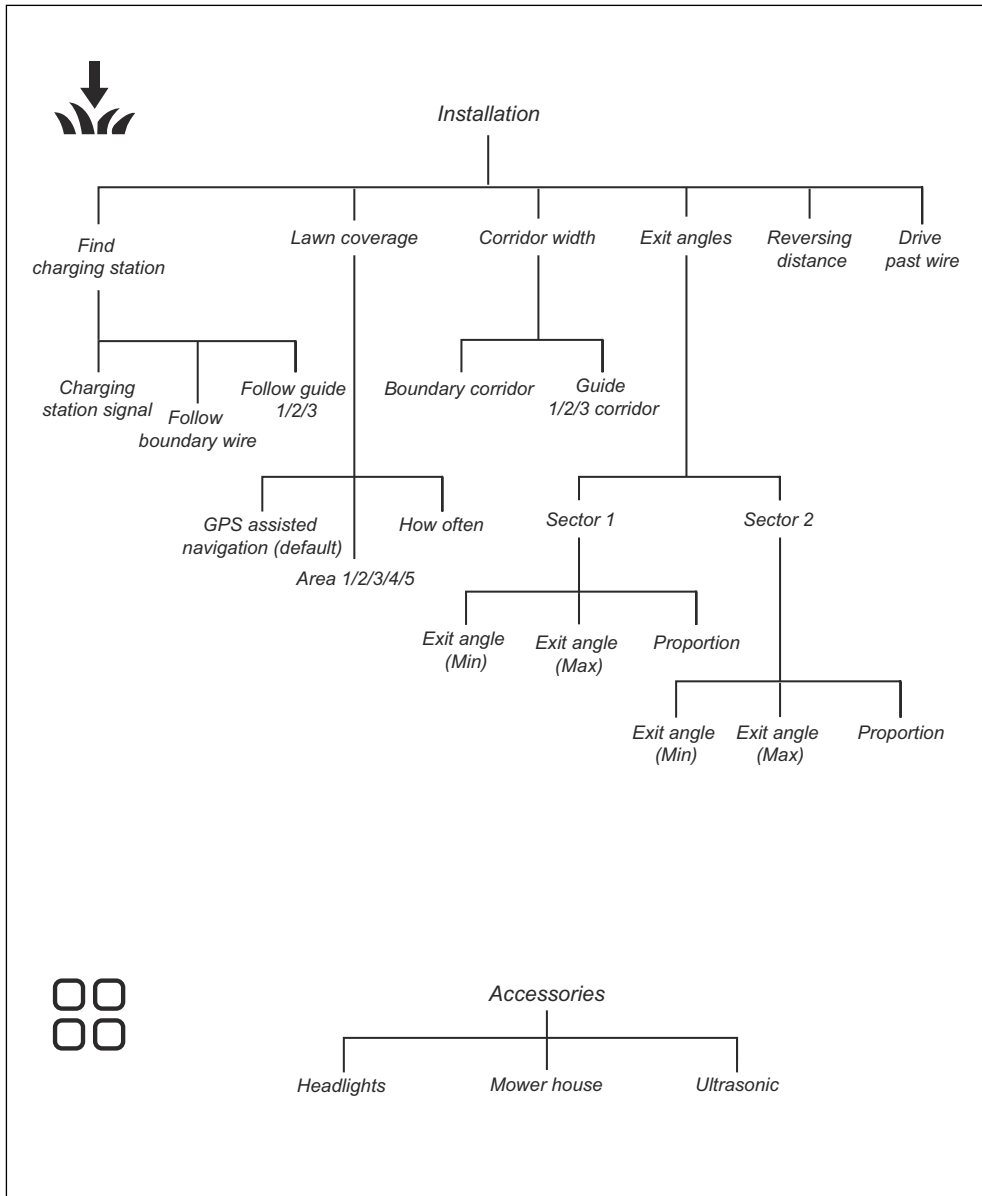
The following system is used in the Operator's Manual to make it easier to use:

- 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.
- Text written in *UPPERCASE* and *italics* refer to the different operating modes available in the product.

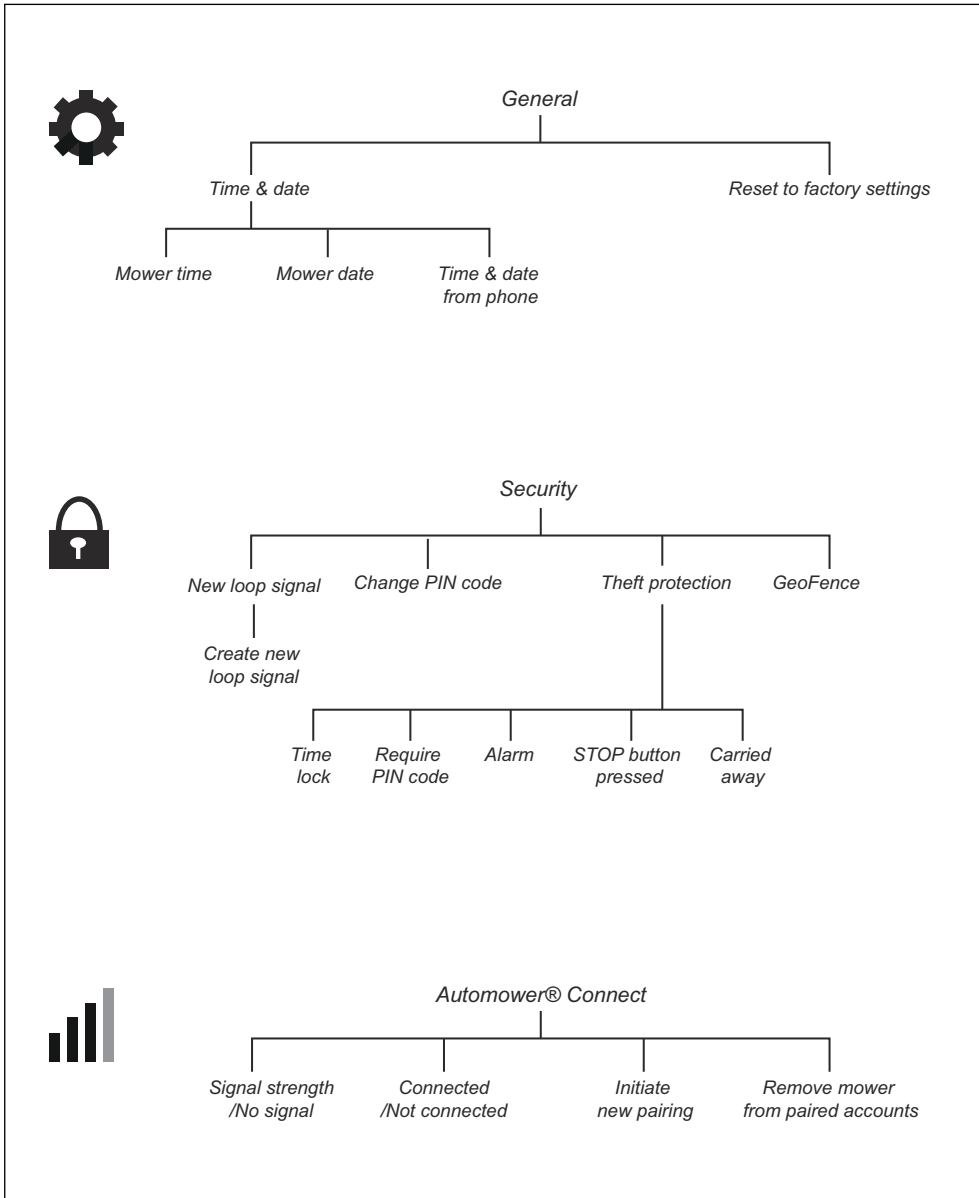
1.11 Overview of the settings structure in Automower® Connect (1)



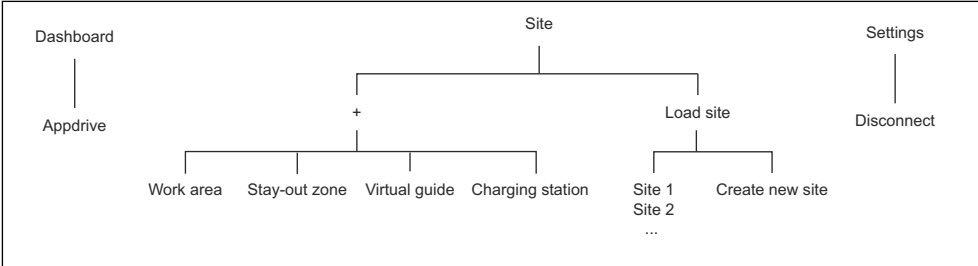
1.12 Overview of the settings structure in Automower® Connect (2)



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



1.14 Menu structure overview in the EPOS app



2.1 Safety information

2.1.1 IMPORTANT. READ CAREFULLY BEFORE USE. KEEP FOR FUTURE REFERENCE

The operator is responsible for accidents or hazards occurring to other people or property.

This appliance is not intended for use by persons (including children) 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.

This appliance can 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. Local regulations may restrict the age of the operator. Cleaning and maintenance shall not be made by children without supervision.

Never connect the power supply to an outlet if the plug or cord is damaged. Worn or damaged cord increase the risk of electric shock.

Only charge the battery in the included charging station. 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. Seek medical help if it comes in contact with the eyes.

Use only original batteries recommended by the manufacturer. Product safety cannot be guaranteed with other than original batteries. Do not use non-rechargeable batteries.

The appliance must be disconnected from the supply mains when removing the battery.



WARNING: The product can be dangerous if used incorrectly.



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.



WARNING: Do not use the product when persons, especially children, or animals are in the work area.

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



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

2.3 Safety instructions for operation

2.3.1 Use

- The product may only be used with the equipment recommended by the manufacturer. All other types of use are incorrect. The manufacturer's instructions with regard to operation/maintenance must be followed precisely.
- The product may only be operated, maintained and repaired by persons that are fully conversant with its special characteristics and safety regulations. Please read the Operator's Manual carefully and make sure you understand the instructions before using the product.
- It is not permitted to modify the original design of the product. All modifications are made at your own risk.
- To prevent damage to the product and accidents to vehicles and persons, do not install a work area across a public path.
- Warning signs shall be placed around the work area of the product if it is used in public areas. The signs shall have the following text: **Warning! Automatic lawn mower! Keep away from the machine! Supervise children!**



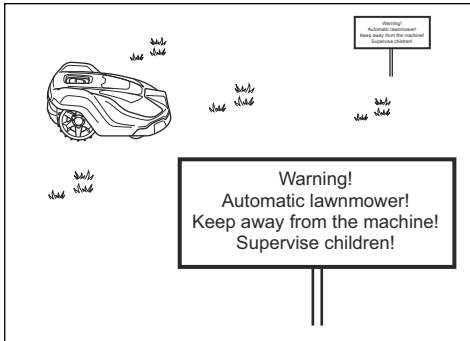
WARNING: In the event of an injury or accident seek medical help.

2.2 Safety definitions

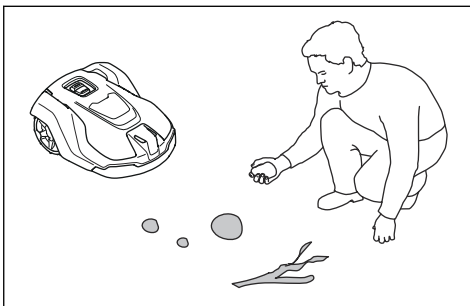
Warnings, cautions and notes are used to point out specially important parts of the manual.



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.



- Use the *Park* function or switch off the product when persons, especially children or animals, are in the work area. Refer to *To switch off the product on page 41*. It is recommended to program the product for use during hours when the area is free from activity, e.g. at night. Consider that certain species, e.g. hedgehogs, are active at night. They can potentially be harmed by the product. Refer to *Schedule on page 32*.
- Check that there are no foreign objects such as stones, branches, tools or toys on the lawn. If the blades hit foreign objects the blades can be damaged. Always switch off the product before clearing a blockage. Inspect the product for damage before starting the product again. Refer to *To switch off the product on page 41*.



- If the product starts to vibrate abnormally. Always switch off the product and inspect for damage before starting the product again. Refer *To switch off the product on page 41*.
- Switch on the product according to the instructions. When the product is switched on; make sure to keep your hands and feet

away from the rotating blades. Never put your hands and feet under the product.

- Never touch moving hazardous parts, such as the blade disc, before it has come to a complete stop.
- Never lift up the product or carry it around when it is switched on.
- The product must never be allowed to collide with persons or other living creatures. If a person or other living creature comes in the way of the product, it shall be stopped immediately. Refer to *To stop the product on page 41*.
- Do not put anything on top of the product or its charging station.
- Do not allow the product to be used with a defective guard, blade disc or body. Neither should it be used with defective blades, screws, nuts or cables. Never connect a damaged cable, or touch a damaged cable before it is disconnected from the supply.
- Do not use the product if the **STOP** button does not work.
- Always switch off the product when it is not in use. The product can only start when the correct PIN code has been entered.
- The product must never be used at the same time as a sprinkler. Use the *Schedule* function so the product and sprinkler never run simultaneously. Refer to *Schedule on page 32*.
- Husqvarna does not guarantee full compatibility between the product and other types of wireless systems such as remote controls, radio transmitters, hearing loops, underground electric animal fencing or similar.
- The built-in alarm is very loud. Be careful, especially if the product is handled indoors.
- Operation and storage temperature is 0-50 °C / 32-122 °F. Temperature range for charging is 0-45 °C / 32-113 °F. Too high temperatures might cause damage to the product.

2.3.2 Battery safety



WARNING: 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.

For more information about the battery, refer to *Technical data on page 60*

2.3.3 How to lift and move the product

To safely move the product from or in the work area the product can be lifted or operated with appDrive. Refer to *How to lift the product on page 15* and *To operate the product with appDrive on page 28*.



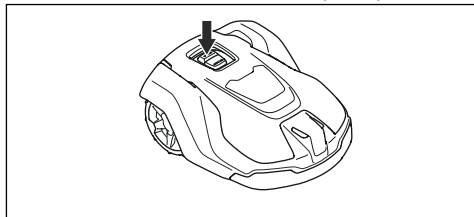
WARNING: The product must be switched off before lifting it. The product is disabled when the **Main switch** is in position 0.



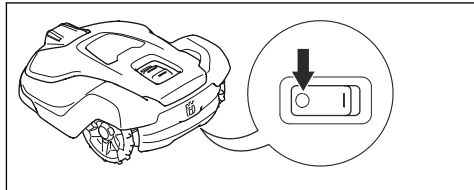
CAUTION: Do not lift the product when it is parked in the charging station. It can damage the charging station and/or the product. Push **STOP** and pull the product out of the charging station before lifting it.

2.3.3.1 How to lift the product

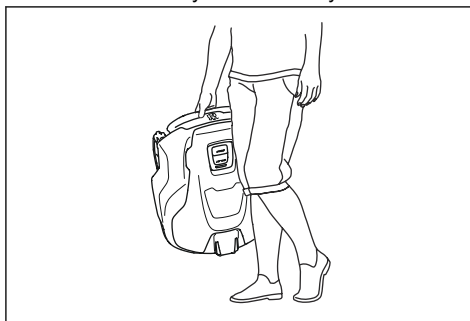
1. Push the **STOP** button to stop the product.



2. Set the main switch in position 0.



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

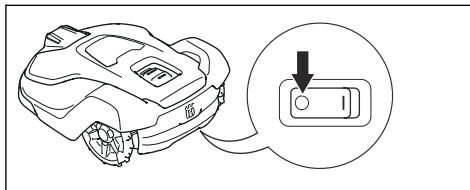


2.3.4 Maintenance



WARNING: When the product is turned upside down the main switch must always be in the 0 position.

The main switch should be set in the 0 position before all work on the chassis of the product, such as cleaning or replacing the blades.



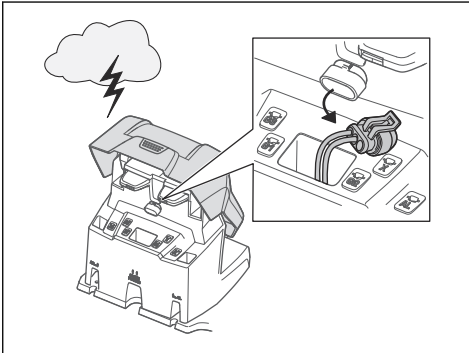
CAUTION: Never use a high-pressure washer or even running water to clean the product, charging station and reference station. Never use solvents for cleaning.



CAUTION: Use the plug to disconnect the charging station before any cleaning or maintenance of the charging station.

Inspect the product each week and replace any damaged or worn parts. Refer to *Maintenance on page 43*.

2.3.5 In the event of a thunderstorm



To decrease the risk of damage to electrical components in the product and the charging station, we recommend that the power supplies to the charging station and reference station are disconnected if there is a risk of a thunderstorm. Connect the power supplies again when there is no a risk of thunderstorm.

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.

3.2 Primary components for installation

The installation includes the components that follow:

- Robotic lawn mower, that cuts the lawn automatically.
- Charging station, that charges the product.
- Power supply, which is connected to the charging station and a 100-240V power outlet.
- Reference station, that receives satellite signals and sends correction data to the robotic lawn mower.
- Power supply, which is connected to the reference station and a 100-240V power outlet.
- Mobile device with the EPOS app for installation of the product.
- Mobile device with the Automower® Connect app to do settings for the product.

3.3 General preparations



CAUTION: Water filled holes in the lawn can cause damage to the product.



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

- Make a blueprint of the work area and include all obstacles. This makes it easier to

examine where to put the charging station, the *Virtual boundary* and the *Virtual guide*.

- Make a mark on the blueprint where to put the charging station, reference station, *Stay-out zones* and *Virtual guide*.
- Fill in holes in the lawn.
- 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 cutting the grass can be higher than usual. The sound level will decrease when the product has operated for some time.

3.4 To examine where to put the reference station



CAUTION: If there is a lightening rod near by, do not install the reference station higher than the lightening rod.

- Install the reference station in a high open position with free view to the sky to receive sufficient satellite signals. Install the reference station at minimum 1.5 m / 5 ft. height. Recommended height is 2.5 m / 8 ft.

Note: On the northern hemisphere there are more satellites in a southerly direction.

- Install the reference station on a post or a wall. It is recommended to install the reference station on a post that is attached on a roof top or similar. The post must be 3.5-5.5 cm / 1.4-2.2 in. in diameter to fit the attachments on the reference station.

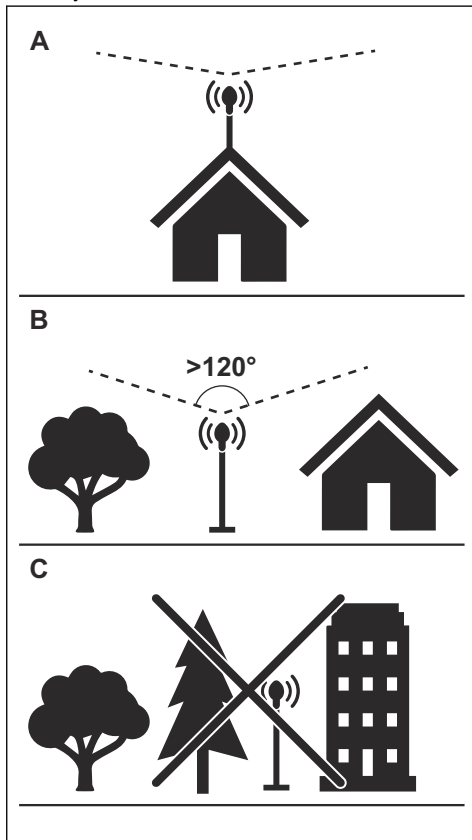
Note: If the reference station is installed on a wall the top of the reference station must be above the wall. There must be no metal in the wall.

- Install the reference station on a fixed object that does not move or rotate.



CAUTION: Do not install the reference station on a flagpole. Movements of the reference station will affect the correction data sent to the product with the accurate position.

- Example A shows the best installation of the reference station. It is installed high with free view to the sky.
- Example B shows a good installation of the reference station. It is installed at a distance to buildings and trees and have free of view to the sky in more than 120° .
- Example C shows a bad installation of the reference station. It is installed too near trees and buildings with limited view to the sky.



- Install the reference station minimum 1.5 m / 4.9 ft. from large objects that can block the

signals from the reference station. Recommended distance is 3 m / 10 ft.

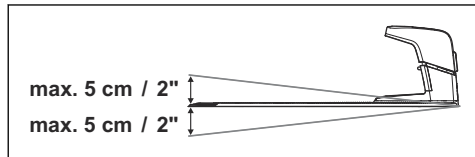
- Install the reference station where the radio signal reaches all parts of the work area.
- It is recommended to have free line of sight between product and reference station for optimal performance.
- The maximum distance between the reference station and the product is 250 m / 820 ft. when free line of view. Objects between the reference station and product decreases the distance.
- Install the reference station within reach of a power outlet.

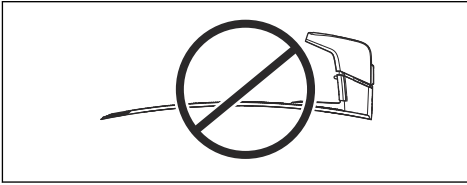
Note: The low-voltage cable is 20 m / 65 ft.

3.5 To examine where to put the charging station

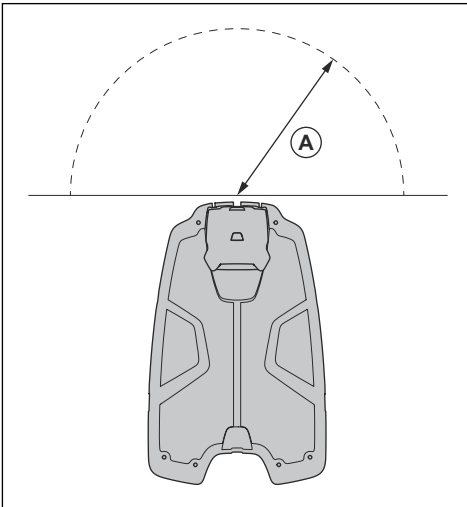
Note: Do not install a mower house that will cause a blockage to the GPS signals.

- Put the charging station in free line of view with the reference station.
- Put the charging station in an open position with free view to the sky.
- Keep a minimum 3 m / 10 ft. of free space in front of the charging station. Refer to *To examine where to install the Virtual guide on page 22.*
- Keep a minimum of 1.5 m / 5 ft. 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.





- Put the charging station in the work area along the Virtual boundary.
- Put the charging station in the lower section of the work area.
- Minimum distance to a work area behind the charging station (A) is 3 m / 10 ft.



3.5.1 To examine where to put the power supply



WARNING: Do not cut or extend the low-voltage cable. There is a risk of electrical shock.



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) when you connect the power supply to the power outlet.

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

3.5.2 To examine where to put the Virtual boundary



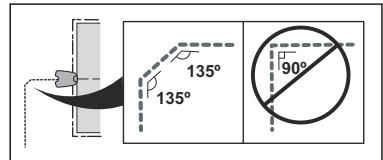
CAUTION: If the work area is adjacent to water bodies, slopes, precipices or a public road, the *Virtual boundary* must have a protective wall. The wall must be minimum 15 cm / 6 in. in height.



CAUTION: Do not let the product operate on gravel.



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

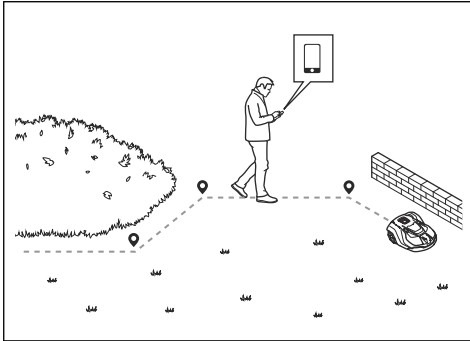


CAUTION: For careful operation without noise, isolate all obstacles such as trees, roots and stones.

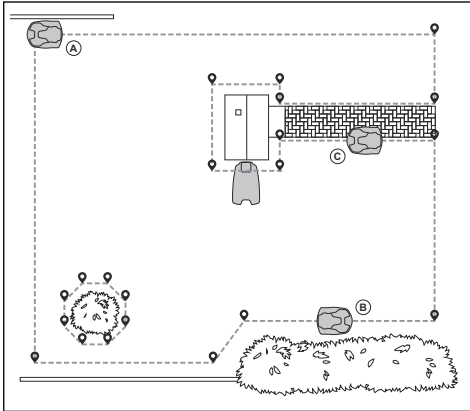
Note: Make a blueprint of the work area before you install the *Virtual boundary* and *Virtual guide*.

- The product must receive sufficient satellite signals in the complete work area.

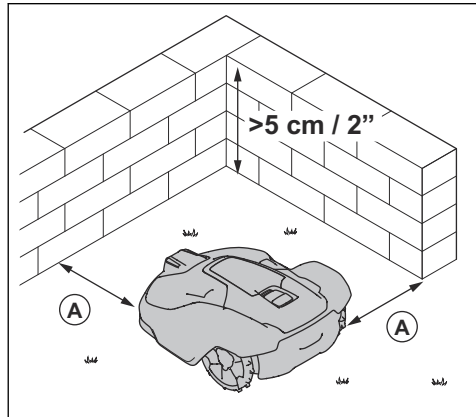
- Operate the product remotely around the boundary of the work area. Put set points on the map in the app. Put 2 set points for a straight line and a number of set points for smooth curves.



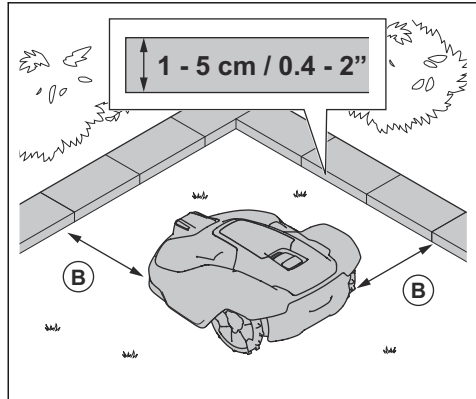
- The position of the set point is approximately in the center of the blade disc.



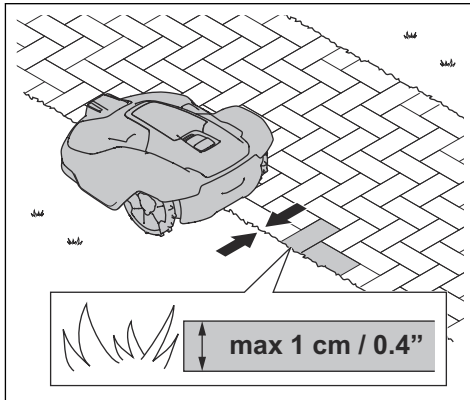
- Keep a distance of 10 cm / 4 in. between the front and side of the product and obstacles that are more than 5 cm / 2 in. high when you add a set point.



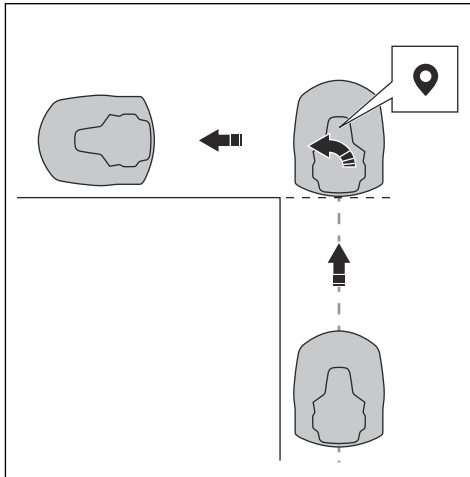
- Keep a distance of 5 cm / 2 in. between the front and side of the product and obstacles that are 1-5 cm / 0.4-2 in. high when you add a set point.



- Put the product to straddle the edge between the lawn and the stone path when you add a set point if it is less than 1 cm / 0.4 in. high.

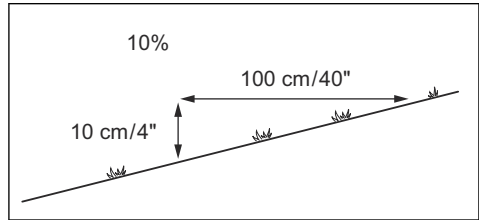


- To install the *Virtual boundary* around an outer corner. Drive past the obstacle until the product goes by the obstacle, add a set point and then turn around the corner.

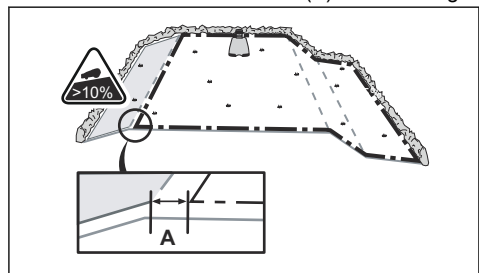


3.5.2.1 To install the *Virtual boundary* in a slope

The product can operate in 45% slopes. Slopes that are too steep must be excluded from the work area or isolated as *Stay-out zones*. 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 *Stay-out zone*.
- For slopes steeper than 15% along the outer edge of the lawn. For installation of the *Virtual boundary*, operate the product with the rear wheel 5 cm / 2 in. (A) from the edge.



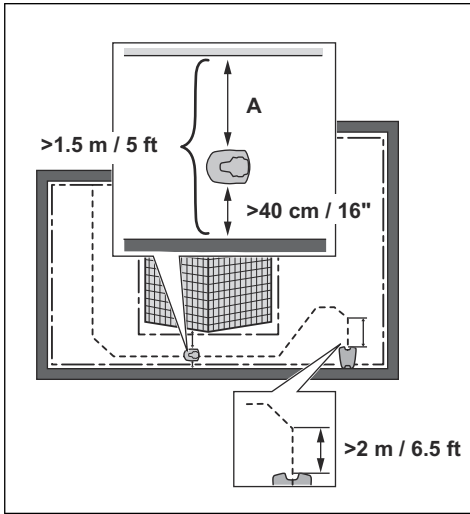
- For slopes adjacent to a public road, put a fence or a protective wall along the outer edge of the slope.

3.5.2.2 Passages

A passage is a section that has *Virtual boundary* on each side and that connects 2 parts of the work area. The passage must be a minimum of 1.5 m / 5 ft. between the *Virtual boundary*.

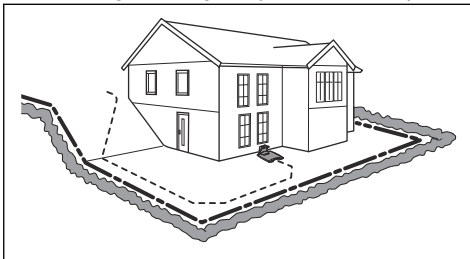
Note: If a passage is less than 2 m / 6.5 ft. wide, install a *Virtual guide* through the passage.

The product always runs to the left of the *Virtual guide* as seen facing the charging station. Make sure that the *Virtual guide* has as much free area as possible to the left of the *Virtual guide* (A).



3.5.3 To examine where to install the Virtual guide

- Install the *Virtual guide* 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 *Virtual guide* when facing the charging station. Refer to *To examine where to put the charging station on page 18*.
- Install the *Virtual guide* minimum 30 cm / 12 in. from the *Virtual boundary*.
- Do not make sharp bends when you install the *Virtual guide*.
- If the work area has a slope, install the *Virtual guide* diagonally across the slope.



3.6 Installation of the product

3.6.1 General steps for installation of the product

For full instructions follow the installation instructions in *Installation of the product on page 22*.

1. Install the charging station.
2. Install the reference station.
3. Install the Automower® Connect app to your mobile device.
4. Pair the product with the Automower® Connect app. Do the basic settings in the start up sequence in the Automower® Connect app.
5. Restart the product to enable pairing mode.
6. Pair the product with the EPOS app.
7. Make a *Site* with *Work area*, *Charging station*, *Virtual guides* and *Stay-out zones* in the EPOS app.
8. Activate the *Site*.
9. Use Automower® Connect app to do settings for the product.

3.6.2 Installation tools

- Mobile device with EPOS app installed. Included in carton.
- Screwdriver, Torx 20.
- Hex key, 4 mm.
- Hex key, 8 mm. Included in the carton.
- Hex key, 5 mm.

Note: The EPOS app must be used with the supplied mobile device.

3.6.3 Installation of the charging station

Read and understand the instructions about the charging station. Refer to *To examine where to put the charging station on page 18*.



WARNING: Obey national regulations about electrical safety.



WARNING: The product is only to be used with the power supply unit supplied by Husqvarna.



WARNING: Do not put the power supply at a position where there is a risk that it can become wet. Do not put the power supply on the ground.



WARNING: Do not encapsulate the power supply. Condensed water can harm the power supply and increase the risk of electrical shock.



WARNING: Risk of Electric Shock. Install only to an residual-current device (RCD) when connecting the power supply to the wall socket. 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.



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



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



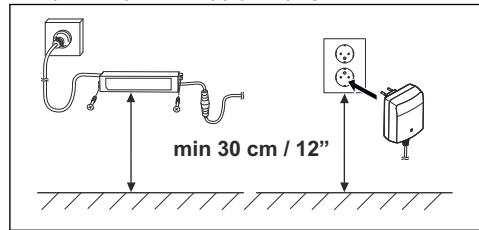
WARNING: The power supply cable and extension cable must be outside the work area to avoid damage to the cables.

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

3.6.3.1 To install the charging station

1. Put the charging station in the selected area.
2. Attach the charging station to the ground with the supplied screws.
3. Connect the low-voltage cable to the charging station.

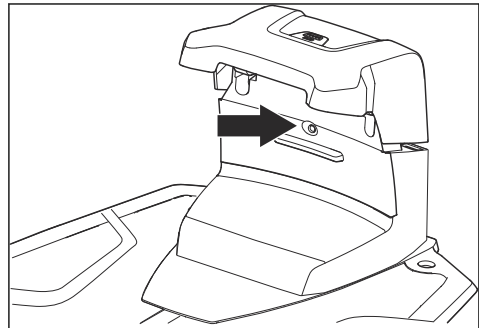
4. Put the power supply at a minimum height of 30 cm / 12 in. Refer to *To examine where to put the power supply on page 19*.



5. Connect the power supply cable to a 100-240V power outlet.
6. Put the low-voltage cable in the ground outside the work area. Use stakes or bury the cable.
7. Put the product in the charging station to charge the product.

3.6.3.2 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 *To install the charging station on page 23* and *LED indicator lamp on the charging station on page 54*.

3.6.4 Installation of the reference station

Read and understand the instructions about the reference station. Refer to *To examine where to put the reference station on page 17*.

You can install the reference station on a post or a wall.



CAUTION: Movements of the reference station will affect the correction data sent to the product with the accurate position. The reference station must be installed tightly on the post or wall.



CAUTION: If the reference station is moved after the installation of the work area, the work area must be deleted and installed again. The work area on the map moves if the reference station moves.



WARNING: Obey national regulations about electrical safety.



WARNING: The product is only to be used with the power supply unit supplied by Husqvarna.



WARNING: Do not put the power supply at a position where there is a risk that it can become wet. Do not put the power supply on the ground.



WARNING: Do not encapsulate the power supply. Condensed water can harm the power supply and increase the risk of electrical shock.



WARNING: Risk of Electric Shock. Install only to an residual-current device (RCD) when connecting the power supply to the wall socket. 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.



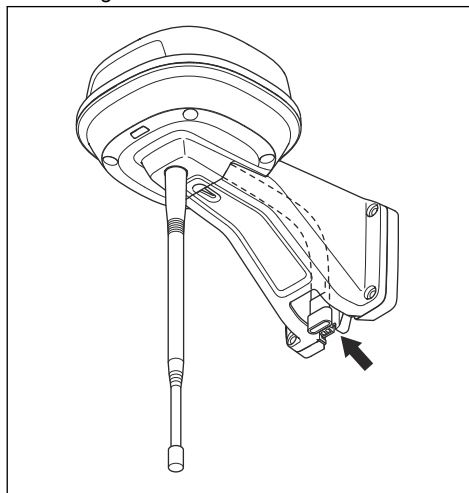
WARNING: The power supply cable and extension cable must be outside

the work area to avoid damage to the cables.

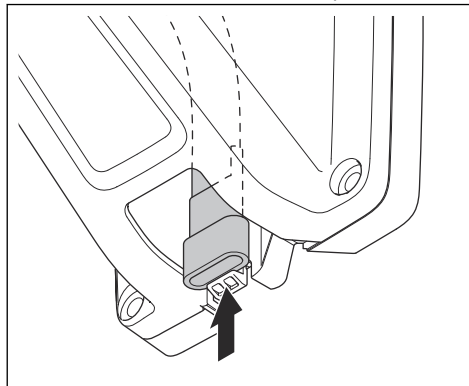
When connecting the power supply, only use a power outlet that is connected to a residual current device (RCD).

3.6.4.1 To install the reference station on a post

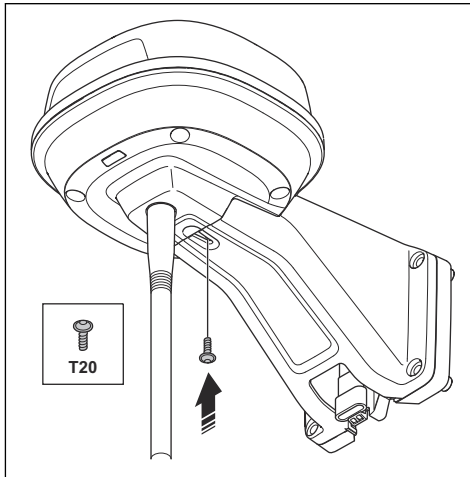
1. Attach the post tightly to a wall, roof top or the ground. Make sure that the post does not move.
2. Pull the cable on the reference station through the slot in the arm.



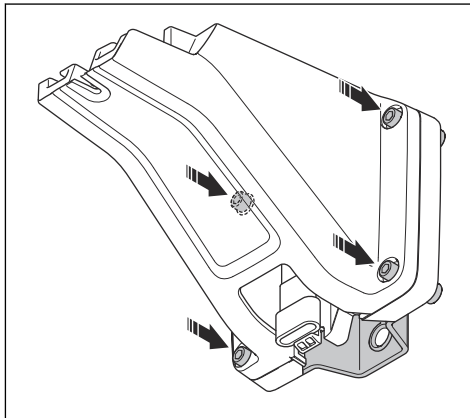
3. Attach the connector to the clips on the arm.



4. Install the screw (Torx 20) on the arm of the reference station.

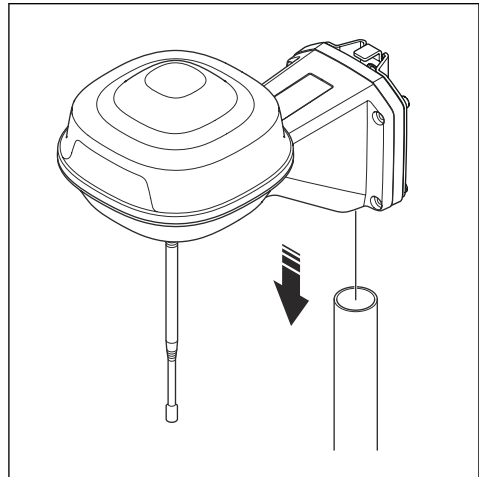


5. Attach the plate to the arm with the 4 screws (4 mm hex key).



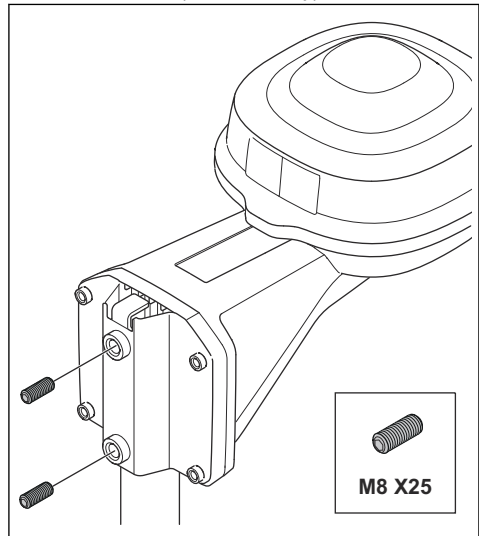
Note: The plates are in 2 dimensions to fit different dimensions of the post. Select the applicable plate for your installation.

6. Put the reference station on top of the post.



Note: The reference station must be installed at the top of the post.

7. Attach the reference station to the post with the 2 screws (5mm hex key).



8. Connect the low-voltage cable to the reference station and the power supply. Refer to *To examine where to put the power supply on page 19*.
9. Attach the low-voltage cable to the wall from the reference station to the power supply with cable ties.



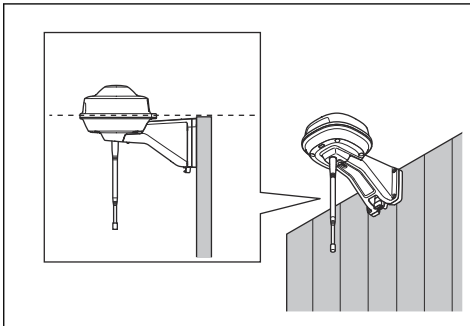
CAUTION: If the low-voltage cable is not attached tightly with cable ties it can be damaged in hard wind.

10. Put the power supply at a minimum height of 30 cm / 12 in. from the ground.
11. Connect the power supply cable to a 100-240V power outlet.
12. Make sure that the LED status indicator on the reference station is solid green. Refer to *LED indicator lamp on the reference station on page 55*.

3.6.4.2 To install the reference station on a wall

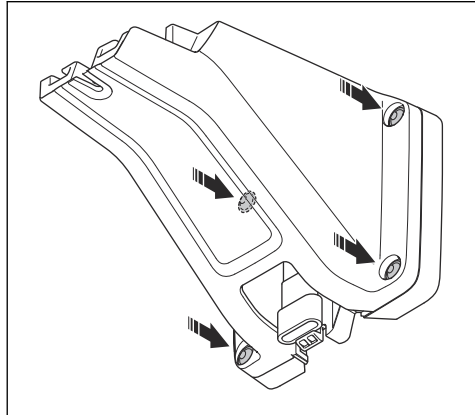
Note: As wall materials vary, screws for fixing to the wall are not included.

1. Hold the arm for the reference station on the wall where you will attach it. Make 4 marks on the wall where you will attach 4 screws.

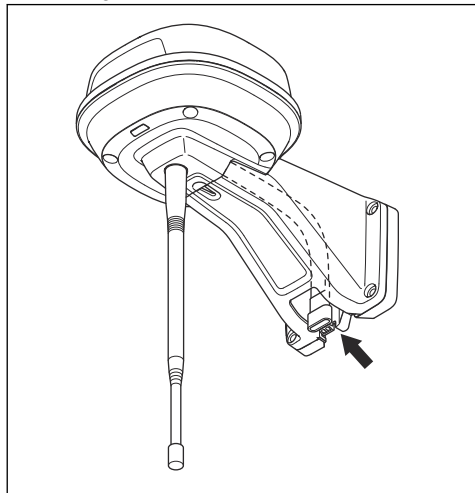


Note: If the reference station is installed on a wall the top of the reference station must be above the wall.

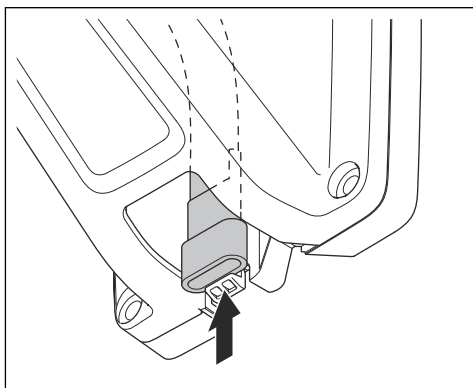
2. Drill 4 holes in the wall for the 4 screws.
3. Install the reference station on the wall with 4 screws.



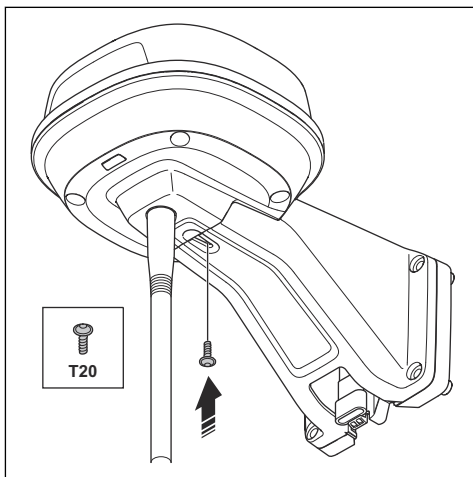
4. Put the cable of the reference station through the slot in the arm.



5. Attach the connector to the clips on the arm.



6. Install the screw (Torx 20) on the arm of the reference station.



7. Connect the low-voltage cable to the reference station and the power supply.
8. Attach the low-voltage cable to the wall from the reference station to the power supply with cable ties.



CAUTION: If the low-voltage cable is not attached tightly with cable ties it can be damaged in hard wind.

9. Put the power supply at a minimum height of 30 cm / 12 in. from the ground. Refer to *To examine where to put the power supply on page 19.*
10. Connect the power supply cable to a 100-240V power outlet.

11. Make sure that the LED status indicator on the reference station is solid green. Refer to *LED indicator lamp on the reference station on page 55.*

3.6.5 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.

3.6.6 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 38.* 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 31.*

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.

- Obey 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.

3.6.7 To pair the product and the EPOS app

- Open the EPOS app on your mobile device.
- Switch on the product.

Note: During start up the LED status indicator on the product is white.

- Select the product you want to pair in the list in the EPOS app. When the LED status indicator starts to flash yellow the Bluetooth® pairing mode is active for 3 minutes.
- Make sure that the mobile device and the product are paired.

Note: It is only necessary to pair the mobile device and the product once.

3.6.8 To connect the product and the EPOS app

Note: Before you connect the product and the EPOS app, you must first pair the EPOS app and the product the first time you use the EPOS app. Refer to *To pair the product and the EPOS app on page 28*.

- Open the EPOS app on your mobile device.
- Select the product you want to connect to in the list in the EPOS app.

Note: The product can only be connected to one app at the time. Close the app that is not to be used and try to pair again.

Note: To disconnect the EPOS app from the product, select *Settings > Disconnect* in the EPOS app.

3.6.9 To pair the product and reference station

- Enter the *Dashboard* in the EPOS app.
- Select *Connect reference station*.
- Select *Next*.
- Select the reference station in the list.
- Select *Done*.

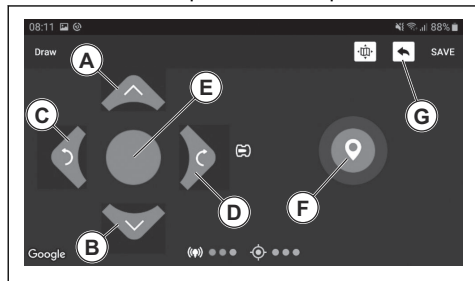
3.6.10 To operate the product with appDrive

You can use the *appDrive* to operate the product and to install a *Site* in the EPOS app.

- Select *Dashboard > appDrive* in the EPOS app to operate the product.

Note: You can only use the buttons (A) to (E) and not add set points in the map.

- Select the plus sign and select *Work area, Stay-out zone, Virtual guide or Charging station* to use *appDrive* for installation.
- Use the buttons to operate the product:
 - Use the **up** button (A) to move the product forward.
 - Use the **down** button (B) to move the product rearward.
 - Use the left **arrow** button (C) to rotate the product to the left.
 - Use the right **arrow** button (D) to rotate the product to the right.
 - Use the **center** button (E) as a joystick to move and rotate the product in any direction.
 - Use the **Set point** (F) to add a set point in the map.
 - Use the **Undo** button (G) to remove the latest set point in the map.

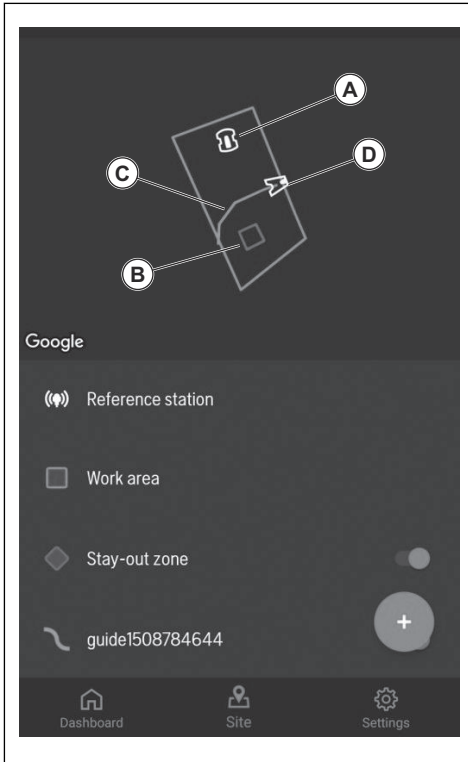


Note: Walk 1-2 m / 3-6.5 ft. behind the product when you operate the product with *appDrive*.

3.6.11 Site

A *Site* contains:

- *Work area* (A)
- *Stay-out zones* (B)
- *Virtual guides* (C)
- *Charging station* (D)



A *Site* can only have one *Work area*. It has 0-3 *Virtual guides* and a number of *Stay-out zones*. You can disable and enable the functions in the EPOS app to adapt the site for temporary operation. There can be maximum one *Charging station*. You can make a number of *Sites* for different parts of the yard. Only one *Site* at the time can be enabled with the *Schedule*. A *Site* with no *Charging station* and no *Virtual guides* installed is operated as a *Secondary area* in the Automower® Connect app.

Note: It is recommended to have a maximum of 400 set points for each *Site*.

3.6.11.1 To make a Site

1. Connect the product and the EPOS app. Refer to *To connect the product and the EPOS app on page 28*.
2. Select *Site* or *Load site*.
3. Select the plus sign.
4. Enter a name for the *Site*.
5. Select *Save*.

3.6.12 To set the position and direction of the charging station

Set the position and direction of the charging station to make the product enter the charging station correctly.

1. Put the product 2 m / 7 ft. straight in front of the charging station.
2. Open the EPOS app on your mobile device.
3. Make sure that the EPOS app and the product are connected.
4. Select *Load site* and select the *Site* where the charging station is to be installed.
5. Select the plus sign.
6. Select *Charging station*.
7. Operate the product with the *appDrive* function and move it straight into the charging station. Refer to *To operate the product with appDrive on page 28*.

Note: Do not lift and move the product between the set point. Use the *appDrive* for a correct installation.

8. Select *Set point*.
9. Select *Done*.

3.6.13 Work area

A *Work area* is specified by the *Virtual boundary*. A saved *Work area* cannot be edited. If you want to make changes, you need to make the *Work area* again.

Note: The *Virtual boundary* can be installed clockwise and counterclockwise.

3.6.13.1 To make a Work area

1. Connect the product and the EPOS app. Refer to *To connect the product and the EPOS app on page 28*.
2. Make sure that the product and the EPOS app are connected.
3. Select *Load site* and select the *Site* where you want to install the *Work area*.
4. Select the plus sign.
5. Select *Work area*.
6. Operate the product with the *appDrive* around the *Work area* to install the *Virtual boundary*. Refer to *To operate the product with appDrive on page 28*.



CAUTION: Do not lift and move the product between the set point. Use *appDrive* for a correct installation.

7. Select *Set point* to put a set point on the map. The app draws straight lines between the set points. Use many set points to get smooth curves.

Note: Select *Undo* to remove the latest set point on the map.

8. Select *Done* to connect the first and last set points to complete the *Work area*.
9. Enter the name for the *Work area*.
10. Select *Save*.

3.6.14 Stay-out zones

Stay-out zones are made inside the work area where the product is not allowed to operate. The *Stay-out zone* is specified by the *Virtual boundary*. A saved *Stay-out zone* cannot be edited. If you want to make changes, you need to make the *Stay-out zone* again.

Note: The *Virtual boundary* can be installed clockwise and counterclockwise.

3.6.14.1 To make a Stay-out zone

1. Connect the product and the EPOS app. Refer to *To pair the product and the EPOS app on page 28*.
2. Select *Load site* and select the *Site* where you want to install the *Stay-out zone*.
3. Select the plus sign.

4. Select *Save*.



CAUTION: Do not lift and move the product between the set point. Use *appDrive* for a correct installation.

5. Operate the product with the *appDrive* around the *Stay-out zones* to install the *Virtual boundary*. Refer to *To operate the product with appDrive on page 28*.
6. Select *Set point* to install a set point on the map. The app draws straight lines between the set points. Use many set points to get smooth curves.

Note: Select *Undo* to remove the latest *Set point* on the map.

7. Select *Done* to connect the first and last set points to complete the *Stay-out zone*.
8. Enter the name for the *Stay-out zone*.
9. Select *Save*.

3.6.15 Virtual guide

- The product can follow the *Virtual guide* to remote parts of the work area and to find the charging station.
- You can install up to 3 *Virtual guides* in the work area.
- Do not install the *Virtual guide* across itself.
- You can install the *Virtual guide* across other installed *Virtual guides*.
- The *Virtual guide* cannot be installed across a *Stay-out zone*.
- The *Virtual guide* is allowed to go across the *Virtual boundary*.

3.6.15.1 To make a Virtual guide

1. Put the product in a remote part of the work area where the product will follow the *Virtual guide*.
2. Connect the product and the EPOS app. Refer to *To connect the product and the EPOS app on page 28*.
3. Select *Load site* and select the *Site* where you will make the *Virtual guide*.
4. Select the plus sign.
5. Operate the product with *appDrive* to make the virtual guide.

Note: Operate the product in a straight line for 7 m / 7 ft. in front of the charging station and let the product enter the charging station.

6. Operate the product with the *appDrive* in a straight line for 2 m / 7 ft. into the charging station.
 7. Select *Set point* to make a set point on the map. The app draws straight lines between the set points. Use many set points to get smooth curves.
-

Note: Select *Undo* to remove the latest set point on the map.

8. Select *Set point* when the product is in the charging station.
9. Select *Save*.

3.6.16 To activate the Site

To use a *Site*, you first must enable the *Site*. The *Virtual boundary* and *Virtual guide* are grey when they are disabled.

1. Select *Load site* and select the *Site* you will to enable.
2. Select *Activate site*.
3. Enter the PIN code.

3.7 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/4G available in the operational area.

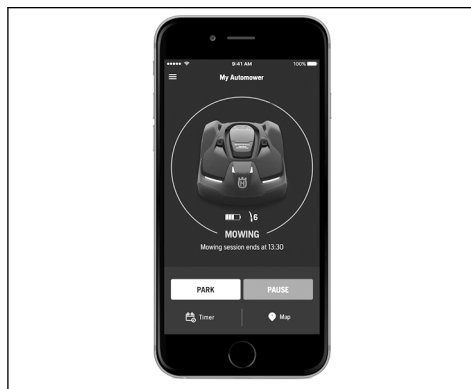
The Automower® Connect app is preferable if you have one or few products installed. For users with several products we recommend you to use Husqvarna Fleet Services™. Refer to *Husqvarna Fleet Services™ on page 39*.

3.7.1 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 40*.

3.7.2 Account

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

3.7.2.1 To set the unit format

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

3.7.3 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.

3.7.4 Automower® Direct

Automower® Direct uses short-range Bluetooth® communication, and is included in Automower® EPOS.

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.

3.7.4.1 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 27*.
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.

3.7.5 Map

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

3.7.5.1 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*.

3.8 Settings in Automower® Connect



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

3.8.1 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.

To calculate the schedule setting, refer to *To calculate the schedule setting on page 33*.

3.8.1.1 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*.

3.8.1.2 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*.

3.8.1.3 To calculate the schedule setting

1. Calculate the dimension of your lawn in m² / ft².
2. Divide the m² / ft² of the lawn with the approximate operation capacity. Refer to table below.
3. The result is equal to the number of hours that the product must operate each day.

Note: The operation capacity is approximate and is calculated for flat and open work area. If the work area has a lot of slopes or obstacles, you need to increase the *Schedule* settings.

Model	Approximate operation capacity, m ² /h / ft ² /h
Automower® EPOS	208 / 2240

Example: A lawn of 3000 m² / 32000 ft², cut with an Automower® EPOS.

3000 m² / 208 ≈ 14.5 h.

32000 ft² / 2240 ≈ 14.5 h.

Days / week	h / day	Schedule settings
7	14.5	7:00 - 21:30 / 7:00 am - 9:30 pm

3.8.2 Operation



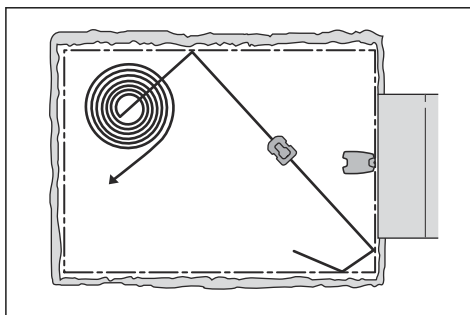
In the Operation's menu it is possible to change the settings of the *Weather timer*, *ECO mode* and *Spiral cutting*.

3.8.2.1 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*.

3.8.2.2 Weather timer

The *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 the *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 the *Weather timer* selects if the product will continue to operate or not.

Note: The *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. The *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*.

3.8.2.3 ECO mode

If *ECO mode* is enabled, it switches off the signal in 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 can not 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*.

3.8.3 Installation



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

3.8.3.1 To find the charging station

The product can do a search for the charging station in 3 methods:

- *Charging station signal*

- *Follow boundary wire (Virtual boundary)*
- *Follow guide (Virtual guide)*

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, the product also uses *Follow guide* (follow *Virtual guide*) and *Follow boundary wire* (follow *Virtual boundary*).

Causes why the product cannot follow the *Virtual guide* or *Virtual boundary*.

- Obstacles near the *Virtual boundary* or *Virtual guide* have not been isolated.
- The charging station, the *Virtual boundary* or the *Virtual guide* are not installed correctly. Refer to *Installation on page 17*.

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 Virtual guide and the Virtual boundary

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

Note: The recommended setting for the *Virtual guide* is 0 min.

4. Select *Save*.

3.8.3.2 Lawn Coverage

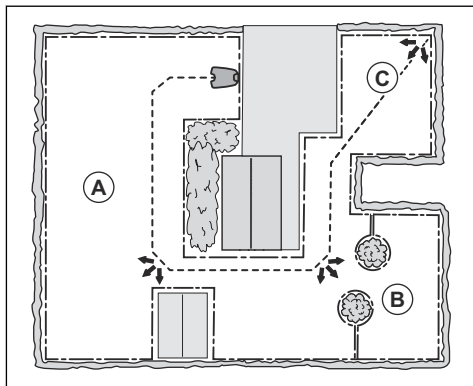
If the work area includes remote parts that are connected with narrow passages, the *Lawn Coverage* function is useful to be able to maintain a well-cut lawn in all parts of the yard. A guide wire must be installed to use the functions. You can set a maximum of 3 remote areas.

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%



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 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.

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 (Virtual boundary left)*, *Boundary wire right (Virtual boundary right)* or one of the *Virtual guides*.
5. Move the horizontal bar to set the distance the product must follow the *Virtual guide* or *Virtual boundary*. The product then leaves the *Virtual guide* or the *Virtual boundary* and starts to cut the lawn. Refer to *To measure the distance from the charging station* on page 35.
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 area with the complete work area.
 - c) Convert the result to %.
 - d) Move the horizontal bar to set the distance from the charging station.
7. Select *Save*.

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.

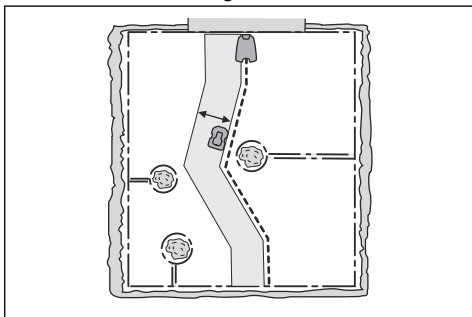
4. Select *Test: Area 1-5 setup*.
5. Follow the instructions in the app to start the test.
6. Push the **STOP** button when the product is at the distance you select to measure. The distance shows in the app.

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.

3.8.3.3 Corridor width

The *Virtual boundary* corridor is the area adjacent to the *Virtual boundary* and the *Virtual guide* corridor is the area adjacent to the *Virtual guide*. 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 *Virtual guide*.



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 *Virtual guide* corridor width is set to 0, the product straddles the *Virtual guide*. The factory setting is 6 for the *Virtual boundary* and 9 for the *Virtual guide*. The recommended setting is 0-5.

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.

3.8.3.4 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*.

3.8.3.5 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*.

3.8.3.6 Drive Past Wire

The front of the product always moves past the *Virtual boundary* 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. The recommended setting is 30-35 cm / 12-14 in. You can select a distance of 20-50 cm / 8-20 in.

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*.

3.8.4 Accessories



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

3.8.4.1 Headlights

There are 4 different headlight settings that control when the headlights are on:

- *Always ON*
- *Evening only (19:00-00:00)*
- *Evening and night (19:00-07:00)*
- *Always OFF*

The default setting is *Always ON*.

To set the headlight settings

1. Select *Settings > Accessories* in the app.
2. Move the horizontal bar to change the settings.
3. Select *Save*.

3.8.4.2 To avoid collisions with the mower house

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

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

3.8.4.3 Ultrasonic

The *Ultrasonic* function makes the product decrease speed when the product comes near an obstacle. The product operates at a lower speed if the *Ultrasonic* function is disabled.

To set the ultrasonic

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

3.8.5 General (Bluetooth® only)



This function is used to set time and date, or to reset to default settings. To change the settings, obey the instructions in the Automower® Connect app.

3.8.5.1 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*.

3.8.5.2 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*.

3.8.6 Security (Bluetooth® only)



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

3.8.6.1 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.

3.8.6.2 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 3*.

3.8.6.3 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.

3.8.6.4 GeoFence

GeoFence is a GPS-based theft protection that makes a virtual fence for the product. If the product is more than 500 m / 1650 ft 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 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.

3.8.7 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.

3.8.8 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 17*.

3.8.9 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® EPOS. For more information about Husqvarna Fleet Services™, refer to www.husqvarna.com.

3.8.9.1 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. Create 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 position *1*.

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.

-
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 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 pair Husqvarna Fleet Services™ app and the product once.

4 Operation

4.1 Main switch



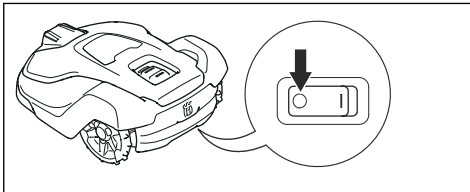
WARNING: Read the safety instructions carefully before you start the product.



WARNING: Keep your hands and feet away from the rotating blades. Do not put your hands or feet near to or below the product when the motor is on.



WARNING: Do not use the product when persons, especially children, or animals are in the work area.



- Set the **Main switch** in the *1* position to start the product.
- Set the **Main switch** in the *0* position when the product is not in use or before you do inspection or maintenance on the product.

4.2 Start

1. Set the **Main switch** to position *1*.
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 will only leave the charging station when the battery is fully charged and if the schedule is set to allow 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 activated.



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 mow secondary areas, the Site for the secondary area must be selected in the EPOS app and the operating mode *Secondary area*

must be selected in the Automower® Connect app. In this mode, the operator must move the product manually between the main area and the secondary area. The product mows for a selected period of time or until the battery is empty. When the battery is empty, the product stops with the message *Needs manual charging*. 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 the operator first. In the *Secondary area* mode, the product operates for a selected period of time or until the battery is empty.

Note: If you want to cut the main area after the battery is charged, set the product to *Main area* mode and change Site in the EPOS app 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 Operating mode - Pause

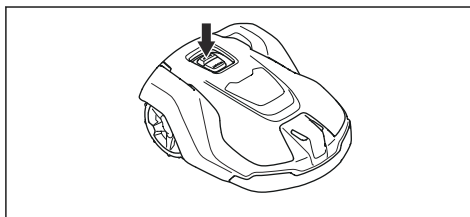
When selecting *Pause* in the Automower® Connect app, the product stop the current activity

and pause. The product is paused until either *Park* or *Start* is selected in the Automower® Connect app.

4.5 To stop the product

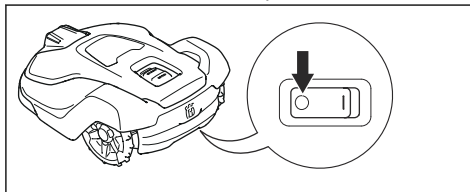
1. Push the **STOP** button on top of the product.

The product stops and the blade motor stops.



4.6 To switch off the product

1. Press the **STOP** button on top of the product.
2. Set the **Main switch** to position *0*.



WARNING: Always switch off the product using the main switch if it requires maintenance, or if the product must be moved outside the work area.

4.7 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*.

4.8 To charge the battery



WARNING: Only charge the product using a charging station which is intended for it. Incorrect use may result in electric shock, overheating or leakage of corrosive liquid from the battery.

In the event of leakage of electrolyte flush with water and seek medical help if it comes in contact with the eyes etc.

When the product is new or has been in storage for a long period, the battery can be empty, charge the battery before you start the product.

1. Set the **Main switch** to position *1*.
2. Put the product in as far as possible in the charging station. Make sure that the product and the charging station is connected. Refer to contact and charging strips in *Product overview on page 5*.
3. Make sure that the charging is in progress in the Automower® Connect app.

5 Maintenance

5.1 Introduction - maintenance



WARNING: The product must be switched off before any maintenance is done. The product is disabled when the LED status indicator is not lit.



WARNING: Wear protective gloves.

For better operation and longer service life, make sure to clean the product regularly and replace worn parts. All maintenance and servicing must be done according to Husqvarna's instructions. Refer to *Warranty on page 63*.

When the product is first used, the blade disc and blades should be inspected once a week. If the amount of wear during this period has been low, the inspection interval can be increased.

It is important that the blade disc rotates easily. The edges of the blades should not be damaged. The lifetime of the blades varies immensely and depends for instance on:

- Operating time and size of the work area.
- Type of grass and seasonal growth.
- Soil, sand and use of fertilizers.
- The presence of objects such as cones, windfalls, toys, tools, stones, roots and the like.

The normal life is 2 to 5 weeks when used under favorable conditions. Refer to *Replace the blades on page 44* on how to replace the blades.

Note: Working with blunt blades gives a poorer mowing result. The grass is not cut cleanly and more energy is needed resulting in the product not mowing such a large area.

5.2 Clean the product

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

Husqvarna recommends to use a special cleaning and maintenance kit, available as an

accessory. Speak to your Husqvarna representative for more information.

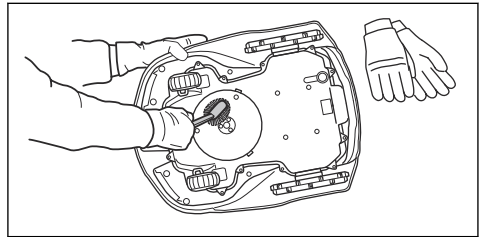


CAUTION: Do not use a high-pressure washer to clean the product, charging station and reference station. Do not use solvents for cleaning.

5.2.1 Chassis and blade disc

Inspect the blade disc and blades once a week.

1. Set the **Main switch** to position *0*.
2. Lift the product onto its side.
3. Clean the blade disc and chassis using for example a dish brush. At the same time, check that the blade disc rotates freely in relation to the foot guard. Also, check that the blades are intact and can pivot freely.



5.2.2 Chassis

Clean the underside of the chassis. Brush or wipe with a damp cloth.

5.2.3 Wheels

Clean around the wheels. Grass on the wheels can impact on how the product performs in slopes.

5.2.4 The body of the product

Use a moist, soft sponge or cloth to clean the body of the product. If the body of the product is dirty, use a mild soap solution to clean it.

5.2.5 Charging station



WARNING: Use the plug to disconnect the charging station before any maintenance, or cleaning of charging station or power supply.

Clean the charging station regularly from grass, leaves, twigs and other objects that may impede docking.

5.2.6 Reference station



WARNING: Use the plug to disconnect the reference station before maintenance or cleaning of the reference station or power supply is done.

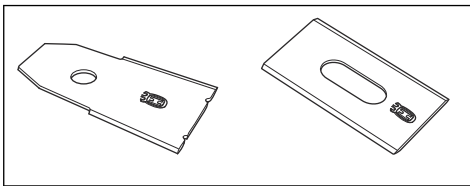
If necessary, clean the reference station with a moist cloth.

5.3 Replace the blades



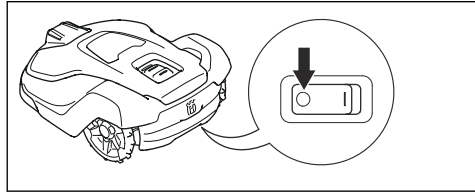
WARNING: Use blades and screws of the right type. Husqvarna can only guarantee safety when using original blades. Only replacing the blades and reusing the screw can result in a screw wearing during mowing. The blades can then be propelled from under the body and cause serious injury.

Replace worn or damaged parts for safety reasons. Even if the blades are intact, they should be replaced on a regular basis for the best mowing result and low energy usage. All 3 blades and screws must be replaced at the same time to obtain a balanced cutting system. Use Husqvarna original blades embossed with the crowned H-mark logotype, refer to *Technical data on page 60*.

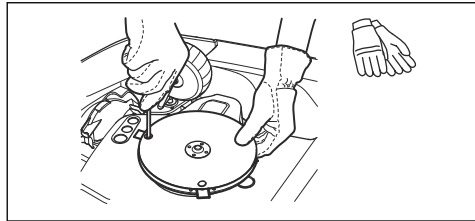


5.3.1 To replace the blades

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



3. Turn the product upside down. Place the product on a soft and clean surface to avoid scratching the body and the hatch.
4. Rotate the skid plate so that its holes align with the screws for the blade.
5. Remove the 3 screws with a screwdriver.



6. Remove the 3 blades.
7. Attach 3 new blades and screws.
8. Make sure that the blades can pivot freely.

5.4 Battery



WARNING: Only charge the product using a charging station which is intended for it. Incorrect use may result in electric shock, overheating or leakage of corrosive liquid from the battery. In the event of leakage of electrolyte flush with water and seek medical help if it comes in contact with the eyes etc.



WARNING: Use only original batteries recommended by the manufacturer. Product safety cannot be guaranteed with other batteries. Do not use non-rechargeable batteries.



CAUTION: The battery must be charged fully before winter storage. If the battery is not fully charged it can be damaged and in certain cases be rendered useless.

If the operating time for the product is shorter than normal between charges, this indicates that the battery is getting old and eventually needs replacing.

Note: Battery life is dependent on the length of the season and how many hours a day the product is operating. A long season or many hours of use a day means that the battery must be replaced more regularly. The battery is fine as long as the product maintains a well-cut lawn.

5.5 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 fault messages in the table below are shown in the display of the product. Speak to your 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 drive wheel 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 wall socket 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.
	<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 and close the hatch. Refer to <i>Start on page 40</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 37</i> .
	The charging station is not installed correctly.	Install the charging station according to the instruction. Refer to <i>To install the charging station on page 23</i> .
<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. Contact your local Husqvarna representative if you forget the PIN code.
<i>Outside work area</i>	The <i>Virtual boundary</i> is too close to the edge of the work area.	Make sure that the <i>Virtual boundary</i> is installed correctly. Refer to <i>To examine where to put the Virtual boundary on page 19</i> .
	The work area slopes too much by the <i>Virtual boundary</i> .	
	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 37</i> .

Message	Cause	Action
<i>Empty battery</i>	The product cannot find the charging station.	Change the position of the <i>Virtual guide</i> . Refer to <i>To examine where to install the Virtual guide on page 22</i> . Check the installation settings about how to find the charging station. Refer to <i>To find the charging station on page 34</i> .
	The battery is spent.	Replace the battery. Refer to <i>Battery on page 44</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 54</i> . This problem requires action by authorized service technician.
<i>No drive</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 install the Virtual boundary in a slope on page 21</i> .
	The <i>Virtual guide</i> is not laid at an angle on a slope.	If the <i>Virtual guide</i> is put on a slope, it must be laid diagonally the slope. Refer to <i>To examine where to install the Virtual guide on page 22</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.
<i>Charging station blocked</i>	The contact between the charging strips and contact strips 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.

Message	Cause	Action
<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>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)</i> on page 37.
<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.	
	The product is tilted more than the maximum angle.	Move the product to a flat area.

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>Charging system problem</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>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	
<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.

Message	Cause	Action
<i>Work area problem</i>	There is no defined <i>Work area</i> .	Make a <i>Work area</i> in the EPOS app. Refer to <i>Work area on page 29</i> .
	No active <i>Work area</i> .	Activate the <i>Work area</i> in the EPOS app. Refer to <i>To activate the Site on page 31</i> .
	Corrupt <i>Work area</i> .	Delete the <i>Work area</i> and redo the installation. Refer to <i>Work area on page 29</i> .
<i>No accurate position from satellites</i>	Weak satellite signal to the reference station.	Examine the installation of the reference station. Refer to <i>Installation of the reference station on page 23</i> .
		The satellite signal is temporary weak. The product will start to operate when the satellite signal are good.
	Weak satellite signal to the product.	The <i>Work area</i> includes parts where the satellite signal is weak. Examine if the product has satellite signal in all parts of the <i>Work area</i> . Examine if the sky is obscured. If possible, remove obstructing objects. Otherwise, redo the installation for the <i>Work area</i> and exclude these parts. Refer to <i>Work area on page 29</i>
		The satellite signal is temporary weak. The product will start to operate when the satellite signal are good.
<i>Reference station communication problem</i>	The reference station is not paired with the product.	Redo the pairing with the reference station. Refer to <i>To pair the product and reference station on page 28</i> .
	The reference station is not installed correctly.	Examine the installation of the reference station. Refer to <i>Installation of the reference station on page 23</i> .
	Reference station radio signal does not cover the whole <i>Work area</i>	Test if the product has radio signal from the reference station in all parts of the <i>Work area</i> . If not, redo the installation of the reference station or the installation of the <i>Work area</i> . Refer to <i>Installation of the reference station on page 23</i> .

6.3 Information messages

The information messages in the table below are shown in the *Messages* menu in the Automower® Connect app. Speak to your Husqvarna representative if the same message shows frequently.

Message	Cause	Action
<i>Low battery</i>	The product cannot find the charging station.	Change the position of the <i>Virtual guide</i> . Refer to <i>To examine where to install the Virtual guide on page 22</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 34</i> .
	The battery is spent.	Replace the battery. Refer to <i>Battery on page 44</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 54</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 cutting 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 <i>Work area</i> to not include this steep part of the work area. Refer to <i>To install the Virtual boundary in a slope on page 21</i> .

Message	Cause	Action
<i>Guide calibration failed</i>	The product has failed to calibrate the <i>Virtual guide</i> .	Check that the <i>Virtual guides</i> are installed according to the instructions. Refer to <i>To examine where to install the Virtual guide on page 22</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 and the GPS assisted navigation does not work.	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 35</i> .
<i>Difficult finding home</i>	The product has been following the <i>Virtual boundary</i> several laps without finding the charging station.	The installation has not been done correctly. Refer to <i>To examine where to put the Virtual boundary on page 19</i> .
		The corridor width for the <i>Virtual boundary</i> is too wide. Refer to <i>Passages on page 21</i> .
		The signal range of the charging station is too low. Refer to <i>To change the signal range of the charging station on page 34</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>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 show a solid or flashing green light. If another color shows, follow the troubleshooting guide below.

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

Light	Cause	Action
<i>Green solid light</i>	Good signals	No action.
<i>Green flashing light</i>	The signals are good and <i>ECO mode</i> is activated.	No action. Refer to <i>ECO mode on page 34</i> .
<i>Red flashing light</i>	Interruption in the charging station's antenna.	Speak to your local Husqvarna representative.
<i>Red solid light</i>	Fault in the circuit board or incorrect power supply in the charging station.	The fault must be correct by an authorized service technician. Speak to your local Husqvarna representative.

6.5 LED indicator lamp on the product

The LED indicator lamp on top of the product shows the current status:

Light	Cause	Action
<i>Green solid light</i>	The product is either mowing the lawn, or leaving the charging station. The accurate position is good.	No action.
<i>Green pulsating light</i>	The product is either mowing the lawn, or leaving the charging station. The accurate position is bad.	No action.
<i>Green flashing light</i>	The product is paused.	No action.
<i>Red solid light</i>	The product has stopped due to an error.	Correct the cause for the error. Push the STOP button, and then push the START button to start the product.
<i>Red flashing light</i>	The product has stopped due to an error.	Correct the cause for the error. Push the STOP button, and then push the START button to start the product.
<i>Yellow solid light</i>	The STOP button has been pushed. The accurate position is good.	Push the START button to start the product.
<i>Yellow pulsating light</i>	The STOP button has been pushed. The accurate position is bad.	Push the START button to start the product.
<i>Yellow flashing light</i>	The product requests the PIN code.	Confirm the PIN code in the Automower® Connect app before you start the product.

Light	Cause	Action
<i>Blue solid light</i>	The product is in the charging station.	No action.
<i>Blue pulsating light</i>	The product is charging.	No action.
<i>White solid light</i>	The product is in installation or <i>app-Drive</i> mode. The accurate position is good.	No action.
<i>White pulsating</i>	The product is in installation or <i>app-Drive</i> mode. The accurate position is bad.	No action.
<i>White flashing light</i>	Startup of the product.	No action.
<i>Magenta flashing light</i>	The basic setting for the product has not been set.	Do the basic settings in Automower® Connect. Refer to <i>To do the basic settings on page 27</i> .

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

6.6 LED indicator lamp on the reference station

Light	Cause	Action
<i>Green pulsing light</i>	Startup of the reference station.	No action.
<i>Green solid light</i>	In operation.	No action.
<i>Red flashing light</i>	The reference station is not working due to an error.	Refer to <i>Installation of the reference station on page 23</i> .

6.7 Symptoms

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

Symptoms	Cause	Action
The product has difficulty docking.	The <i>Virtual boundary</i> 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 23</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 18</i> .
	The charging station is put too far from the work area.	Delete the work area and make a new work area or move the charging station.
The product runs at the wrong time.	The product clock needs to be set.	Set the clock. Refer to <i>Time & date on page 37</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 32</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>To replace the blades on page 44</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>Chassis and blade disc on page 43</i> .
	The battery is spent.	Replace the battery. Refer to <i>Battery on page 44</i> .
Both the mowing and charging times are shorter than usual.	The battery is spent.	Replace the battery. Refer to <i>Battery on page 44</i> .

Symptoms	Cause	Action
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 patten.	Adjust the intensity of spiral cutting. This function can be disabled if necessary. Refer to <i>Spiral cutting on page 33</i> .
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.
Cannot pair the mobile device with the product.	The product is already paired with another app or another mobile device nearby.	Close the app that is not to be used and try again.

Symptoms	Cause	Action
Uneven mowing results.	The product works too few hours per day.	Increase the mowing time. Refer to <i>Schedule on page 32</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 <i>How often?</i> setting is incorrect in relation to the layout of the work area. Note: Not applicable if GPS assisted navigation is enabled.	Check that the correct <i>How often?</i> value is selected.
	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 35</i> .
	Work area is too large.	Try to limit the work area, or to extend the work time. Refer to <i>To calculate the schedule setting on page 33</i> .
	Dull blades.	Replace all the blades. Refer to <i>To replace the blades on page 44</i> .
	Long grass in relation to the set cutting height.	Increase the cutting height and then successively lower it.
The map of the Site is not correct.	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>Chassis and blade disc on page 43</i> .
		Use the <i>appDrive</i> to install the <i>Work area</i> , <i>Stay-out zone</i> or <i>Virtual guide</i> again. Refer to <i>Installation of the product on page 22</i> .
The product disconnects from the EPOS app when it enters or stands in the charging station.	The product is in power save mode when it is in the charging station and the charging is completed.	Pull out the product from the charging station.
		If it occurs during installation the power to the charging station can temporary be disconnected during the installation.

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 42*.
- Disconnect the product with the **main switch**. Refer to *To switch off the product on page 41*.
- Clean the product. Refer to *Clean the product on page 43*.
- 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 from the charging station.

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 59*.

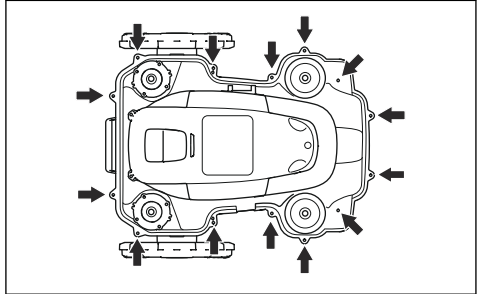
7.3.1 To remove the battery



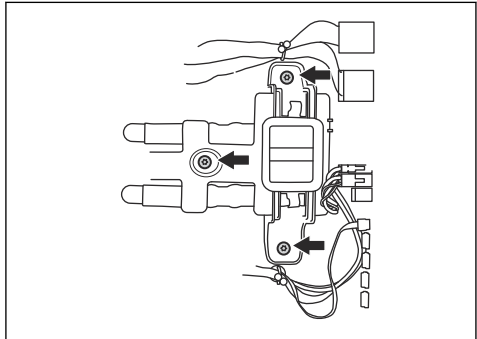
CAUTION: Only remove the battery when you dispose the product. When you remove the warranty seal, the Husqvarna warranty is no longer applicable.

1. Disconnect the product with the **Main switch**. Refer to *To switch off the product on page 41*.

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 MMI 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® EPOS	Automower® EPOS High cut
Length, cm / in.	72 / 28.3	75 / 29.5
Width, cm / in.	56 / 22	63 / 24.8
Height, cm / in.	32 / 12.6	35 / 13.8
Weight, kg / lbs	14.5 / 32.0	16 / 35.3

Electrical system	Automower® EPOS	Automower® EPOS High cut
Battery, Lithium-Ion 18V, 5.0 Ah, Art. No	593 11 84-01, 593 11 85-01 (2 pcs.) 5.0 Ah/ battery	
Battery, Lithium-Ion 18V, 4.9 Ah, Art. No	593 11 84-02, 593 11 85-02 (2 pcs.) 4.9 Ah/ battery	
Power supply (28V DC), V AC	100-240	100-240
Low voltage cable for charging station, length m/ft.	10 / 33	10 / 33
Mean energy consumption at maximum use	23 kWh/month in a 5000 m ² work area	23 kWh/month in a 5000 m ² work area
Charging current, A DC	7	7
Type of Power Supply Unit for charging station	FW7458/28/D	FW7458/28/D
Average mowing time, min	270	270
Average charging time, min	60	60

Boundary wire antenna	Automower® EPOS	Automower® EPOS High cut
Operating Frequency Band, Hz	300-80000	300-80000
Maximum Radio-frequency power ⁴ , mW @60m	<25 mW @60m	<25 mW @60m

⁴ Maximum active output power to antennas in the frequency band in which the radio equipment operates.

Noise emissions measured in the environment as sound power ⁵	Automower® EPOS	Automower® EPOS High cut
Measured sound power noise level, dB (A)	60	62
Guaranteed sound power noise level, dB (A)	61	63
Sound pressure noise level at the operator's ear, dB (A) ⁶	49	51

Mowing	Automower® EPOS	Automower® EPOS High cut
Cutting system	3 pivoted cutting blades	
Maximum blade motor speed, rpm	2300	2300
Power consumption during cutting, W +/- 20 %	35	35
Cutting height, cm / in.	2-6 / 0.8-2.4	5-9 / 2-3.6
Cutting width, cm / in.	24 / 9.4	24 / 9.4
Narrowest possible passage, m / ft.	1.5 / 5	1.5 / 5
Maximum angle for cutting area, %	45	45
Maximum angle for Virtual boundary, %	15	15
Working capacity, m ² / acre(s) +/- 20%	5000 / 1.25	5000 / 1.25

IP-classification	Automower® EPOS	Automower® EPOS High cut
Robotic lawn mower	IPX4	IPX4
Charging station	IPX1	IPX1
Power supply charging station	IPX4	IPX4
Power supply reference station	IPX4	IPX4

Reference station	
Power supply (28V DC), V AC	100-240
Low voltage cable for reference station, length m/ft.	20 / 66
Charging current, A	1.3
Type of Power Supply Unit	ADP-40BR
IP-classification	IPX5

⁵ Noise emissions in the environment measured as sound power (L_{WA}) in conformity with EC directive 2000/14/EC and New South Wales legislation (Protection of the Environment Operations Regulation 2017, Noise Control). The guaranteed sound power level includes variation in production as well as variation from the test code with 1-3 dB(A). Noise emission data can be found on the rating label and in the Technical data chapter.

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 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)
SRD868 (Europe)	863-870 MHz
SRD915 (North America)	902-928 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 4G	Power Class 3	23 dBm
SRD868 (Europe)	13 dBm	
SRD915 (North America)	13 dBm	

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 5*.

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.

8.3 Open source software

The product contains open source software. Its source code is made available in the following GitHub repository. <https://github.com/husqvarnagroup/epos-linux-platform/>

⁶ Sound pressure noise uncertainties K_{pA} , 2-4 dB (A).

9 Warranty

9.1 Warranty terms

Husqvarna® warranty covers this product's functionality for a period of 2 years from date of purchase. The warranty covers serious faults relating to materials or manufacturing faults.

Within the warranty period, we will replace the product or repair it at no charge if the following terms are met:

- The product and the charging station may only be used in compliance with the instructions in this Operator's Manual. This manufacturer's warranty does not affect warranty entitlements against the dealer/retailer.
- End-users or non-authorized third parties must not attempt to repair the product.

Examples of faults which are not included in the warranty:

- Damage caused by water seepage from using a high-pressure washer, or from being submerged under water, for example when heavy rain forms pools of water.
- Damage caused by lightning.
- Damage caused by improper battery storage or battery handling.
- Damage caused by using a battery that is not a Husqvarna original battery.
- Damage caused by not using Husqvarna original spare parts and accessories, such as blades and installation material.
- Damage caused by non-authorized changing or tampering with the product or its power supply.

The blades and wheels are seen as disposable and are not covered by the warranty.

If an error occurs with your Husqvarna product, please contact Husqvarna customer service for further instructions. Please have the receipt and the product's serial number at hand when contacting Husqvarna customer service.

10 EC Declaration of Conformity

10.1 EC Declaration of Conformity

Husqvarna AB, SE-561 82 Huskvarna, Sweden, tel: +46-36-146500, declares that the robotic lawn mowers **Automower® EPOS** and with serial numbers dating 2020 week 3 and onwards (the year and week is clearly stated on the rating plate, followed by the serial number), comply with the requirements of the COUNCIL'S DIRECTIVE:

- Directive "relating to machinery" **2006/42/EC**.
 - Particular requirements for robotic battery powered electrical lawn mowers **EN 50636-2-107: 2015**
 - Electromagnetic fields **EN 62233: 2008**.
- Directive on "restriction of use of certain hazardous substances" **2011/65/EU**.
 - The following standard is applied: **EN 50581:2012**
- Directive "relating to noise emissions from outdoor equipment" **2000/14/EC**. Refer to *Technical data on page 60* for information regarding noise emissions and the cutting width.

The notified body 0404, RISE SMP Svensk Maskinprovning AB, Box 7035, SE-750 07 Uppsala, Sweden, has issued a report regarding the assessment of conformity according to annex VI to the Council's Directive of May 8, 2000 "relating to noise emissions into the environment" 2000/14/EC. The certificate is numbered: for Automower® EPOS (01/901/296) and (01/901/291):

- Directive "relating to radio equipment" **2014/53/EU**. The following standards have been applied:
 - **ETSI EN 303 447 V1.1.1**
 - **ETSI EN 300 328 V2.1.1**
 - **ETSI EN 300 220-1 V3.1.1**
 - **ETSI EN 300 220-2 V3.1.1**
 - **ETSI EN 301 511 V12.5.1**
 - **ETSI EN 301 908-2 V.11.1.1**
 - **ETSI EN 301 908-13 V11.1.2**
- Electromagnetic compatibility:
 - **ETSI EN 301 489-1**
 - **ETSI EN 301 489-3**

- **ETSI EN 301 489-17**
- **ETSI EN 301 489-19**
- **ETSI EN 301 489-52**



Husqvarna, 2020-04-02

Lars Roos

Global R&D Director, Robotic category

(Authorized representative for Husqvarna AB and responsible for technical documentation.)



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Original instructions

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