



Operator's manual
HUSQVARNA AUTOMOWER®
520/550 EPOS®



EN, English

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

Contents

1 Safety	
1.1 Safety definitions.....	3
1.2 General safety instructions.....	3
1.3 Safety instructions for installation.....	4
1.4 Safety instructions for operation.....	4
1.5 Safety instructions for maintenance.....	5
1.6 Battery safety.....	5
1.7 To lift and move the product.....	5
1.8 Cyber security.....	5
2 Introduction	
2.1 Support.....	7
2.2 Product description.....	7
2.3 System description.....	7
2.4 System overview.....	8
2.5 Product overview.....	9
2.6 Symbols on the product.....	9
2.7 Symbols on the battery.....	10
2.8 Product damage.....	10
3 Installation	
3.1 Introduction - Installation.....	11
3.2 Primary components for installation.....	11
3.3 To prepare for installation.....	11
3.4 To examine where to put the reference station...	11
3.5 To examine where to put the charging station....	11
3.6 To examine where to put the power supply.....	12
3.7 To examine where to install the objects on the map.....	12
3.8 Installation of the product.....	15
4 Settings	
4.1 Areas.....	21
4.2 Configuration.....	22
4.3 Bluetooth® menu.....	23
4.4 Error log.....	23
4.5 Download firmware over the air (Firmware over the air FOTA).....	23
5 Operation	
5.1 Main switch.....	24
5.2 To set the product to ON.....	24
5.3 Operate according to schedule.....	24
5.4 Mow a selected work area or override schedule.....	24
5.5 Park.....	24
5.6 Park at Maintenance point.....	24
5.7 To stop the product.....	24
5.8 To set the product to OFF.....	24
5.9 To charge the battery.....	25
6 Maintenance	
6.1 Introduction - maintenance.....	26
6.2 Maintenance schedule.....	26
6.3 Clean the product.....	27
6.4 Replacement of the blades.....	28
6.5 Replace the wheel brushes.....	28
6.6 Battery.....	28
6.7 Winter service.....	28
7 Troubleshooting	
7.1 Messages.....	30
7.2 LED indicator lamp on the charging station.....	37
7.3 LED indicator on the product.....	37
7.4 Symptoms.....	38
8 Transportation, storage and disposal	
8.1 Transportation.....	40
8.2 Storage.....	40
8.3 Disposal.....	40
9 Technical data	
9.1 Technical data.....	41
9.2 Registered trademarks.....	43
10 Applicable to US/CA market	
10.1 Supplier's Declaration of Conformity.....	44
10.2 Compliance requirements.....	44

1 Safety

1.1 Safety definitions

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



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



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

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

1.2 General safety instructions



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

- Read the Operator's manual carefully and make sure you understand the instructions before you use the product. Keep for future reference.
- This appliance is not intended for use by children or persons with reduced physical, sensory or mental capabilities (that could affect a safe handling of the product), or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- The product must only be used with the equipment recommended Husqvarna. All other types of use are incorrect.
- Do not let children less than 8 years of age be in the work area during operation. Children and animals must be supervised at all times during operation.
- To prevent damage to the product and accidents to vehicles and persons, do not install work areas and transport paths across public pathways.
- The product is not a toy. The blades of the product can cause injury to persons and animals. Do not let children less than 8 years of age be in the work area during operation. Children and animals must be supervised at all times during operation.
- All persons must be a minimum of 3 m/10 ft away from the product when it is in operation. Do not for example sleep or sunbathe in the work area when the product is in operation.
- Warning signs must be put around the work area of the product if it operates in public areas. The signs must have the text that follows: 'Warning! Automatic lawn mower! Keep away from the machine! Supervise children!'
- Do not run when you operate the product manually with appDrive. Always walk, be sure on footing on slopes and make sure to have balance at all times. Always wear substantial footwear and long trousers when you operate the product with appDrive.
- To set the product to OFF, go behind the product and push the STOP button and then push the ON/OFF button for 3 seconds to set the product to OFF. You can use the app to pause the product if it is applicable for your product. When the product is set to OFF, wait minimum 3 seconds before you move the product.
- Do not touch moving hazardous parts, such as the blade disc, before it has come to a complete stop.
- Set the product to OFF before you clear a blockage, do maintenance or examine the product, and if the product starts to vibrate abnormally. Examine the product for damage before you start the product again. Do not use the product if it is defective.
- If an injury or accident occur get medical aid.
- Do not put power supply cable and extension cable in the work area. This can cause damage to the cables.
- Do not connect a damaged cable or plug, or touch a damaged cable, before it is disconnected from the power outlet. Disconnect the plug from the power outlet if the cable becomes damaged while in operation. A worn or damaged cable increases the risk of electrical shock. A damaged cable must be replaced by service personnel.
- When you connect the power supply to the power outlet, use an outlet with a Class A ground fault circuit interrupter (GFCI) or a residual-current device (RCD) of maximum 30 mA.
- Only charge the product in the included charging station. For safe disposal of the battery, refer to *Disposal on page 40*. Incorrect use may result in electric shock, overheating or leaking of corrosive liquid from the battery. In the event of leakage of electrolyte, flush with water/neutralizing agent. Get medical aid if corrosive liquid comes in your eyes.
- Use only original batteries recommended by Husqvarna. Product safety cannot be guaranteed with other than original batteries. Do not use non-rechargeable batteries.

- Follow the installation instructions that includes to specify the work area, refer to *Installation on page 11*.
- Follow the instructions about to start and operate the product, refer to *Operation on page 24*.
- If there is a risk of thunderstorm, Husqvarna recommends that the power supply and all the wires to the charging station are disconnected to decrease the risk of damage to electrical components. Connect the power supply and all the wires again if there is no longer a risk of thunderstorm. It is important that all wires are connected correctly.
- Follow the maintenance instructions and if necessary use Husqvarna original spare parts, refer to *Maintenance on page 26*.
- For technical data such as weight, dimensions and noise emission values, refer to *Technical data on page 41*.
- The operator is responsible for accidents or dangers that occurs to other persons or property.
- The product must only be operated, maintained and repaired by persons that are fully conversant with its special characteristics and safety regulations.
- It is not permitted to change the initial design of the product.
- Obey national regulations about electrical safety.
- Husqvarna does not guarantee full compatibility between the product and other types of wireless systems such as remote controls, radio transmitters or equivalent.
- The built-in alarm is very loud. Be careful, especially if the product is handled indoors.
- Operation and storage temperature 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.

1.3 Safety instructions for installation



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

- Do not install the charging station in an area where there is a risk that persons trip on it.
- Do not install the charging station, including any accessory, at a location that is below, or within 60 cm / 24 in. from, any combustible material. In case of malfunction, heating of the charging station and the power supply may occur and create a potential risk of fire.
- Do not put the power supply at a height where there is a risk it can be put in water. Do not put the power supply on the ground.

- Do not encapsulate the power supply. Condensed water can harm the power supply and increase the risk of electrical shock.
- Install the charging station out of reach of pests such as ants.
- Applicable to USA/Canada. If power supply is installed outdoors: Risk of Electric Shock. Install only to a covered Class A GFCI receptacle (RCD) that has an enclosure that is weatherproof with the attachment plug cap inserted or removed.
- Do not install the charging station where there is a risk of standing water.

1.4 Safety instructions for operation



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

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

1.5 Safety instructions for maintenance



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

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

1.6 Battery safety



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

- Lithium-ion batteries can explode or cause fire if disassembled, short-circuited, exposed to water, fire, or high temperatures. Handle carefully, do not dismantle, open the battery or use any type of electrical/mechanical abuse. Avoid storage in direct sunlight.
- Do not use a damaged battery. Dispose the battery if it is damaged. Refer to *Disposal on page 40*.

1.7 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.

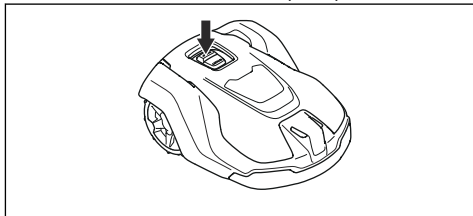


WARNING: The product must be set to OFF before you lift the product. The product is disabled when the **Main switch** is set to the 0 position.

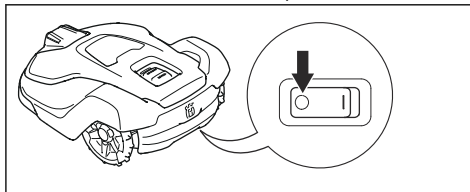


CAUTION: Do not lift the product when it is parked in the charging station. It can cause damage to the charging station and/or the product. Push the **STOP** button and pull the product out of the charging station before you lift it.

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



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



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



1.8 Cyber security

Security recommendations:

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

1.8.1 Bluetooth® interface

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

1.8.2 Cellular interface

The cellular interface enables remote access through the companion app, supports firmware updates, and provides location services. The product uses industry-standard protocols to make cellular connections secure.

1.8.3 Location service

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

1.8.4 External services

These services are available through the network interfaces:

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

2 Introduction

Serial number:
Product number:
PIN code:

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

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

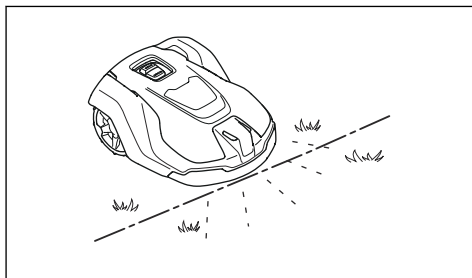
2.1 Support

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

2.2 Product description

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

The product is a robotic lawn mower. The product has a battery power source and cuts grass automatically. It continuously alternates between mowing and charging. The product operates until the battery state of charge is low or until the work area is cut, then the product starts to go to the charging station. The movement pattern of the product can be set to irregular or systematic. The virtual boundary specifies the work area where the product is allowed to operate. The satellite receiver in the product senses when it is approaching the virtual boundary. When the product hits an obstacle or approaches the virtual boundary the product selects a new direction.



2.3 System description

For installation of virtual boundaries with EPOS®, the product uses satellites and correction data to navigate.

The correction data can be received through the Husqvarna® Cloud or a reference station. The reference station is an optional accessory that you can use if you cannot connect to the Husqvarna® Cloud.

There are 2 types of reference stations. The EPOS® RS 4G reference station uses cellular communication to send signals to the product. The maximum distance between the product and the EPOS® RS 4G reference station is 25 km/16 mi. The EPOS® RS5 reference station uses radio communication to send signals to the product. The maximum distance between the product and the EPOS® RS5 reference station is 500 m/1640 ft. The EPOS® RS5 reference station can be used as a repeater. It can connect to other EPOS® RS5 reference stations. This connection increases the coverage area.

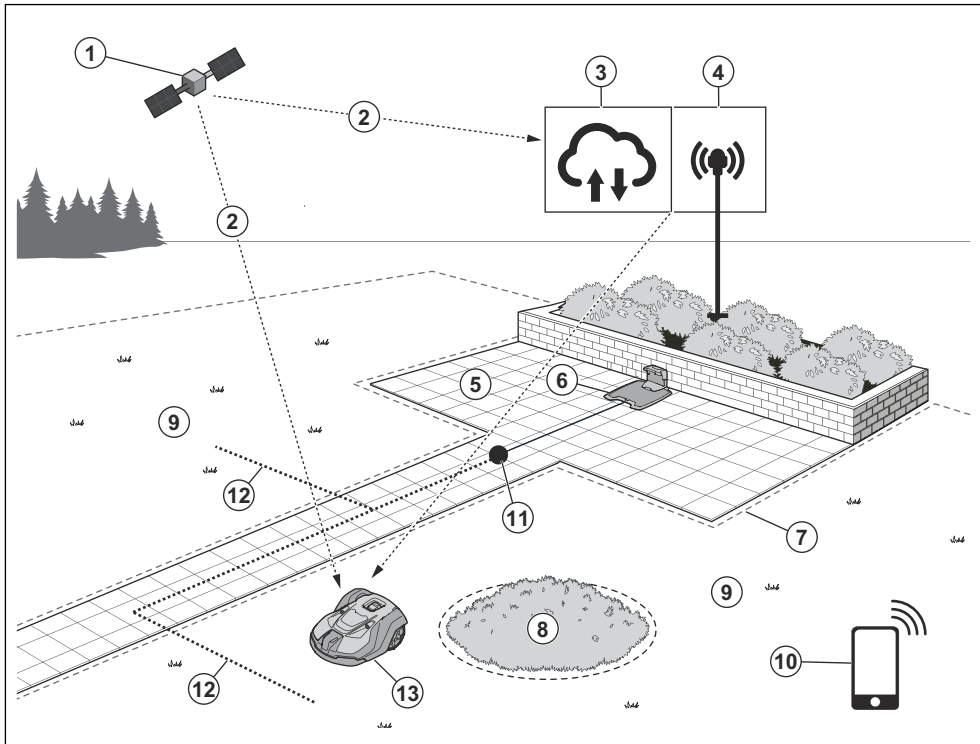
Note: All countries and regions do not support reference stations or correction data through the Husqvarna® Cloud. Speak to your local Husqvarna representative for information.

To make an installation the product is operated with appDrive in the app. Waypoints are added to make a map in the app. Work areas are the areas where the product operates and cuts grass. You can also create stay-out zones where the product cannot enter. In front of the charging station there is a docking point. It is used for the product to navigate to and from the charging station. Transport paths are necessary to navigate between the docking point and the work areas. The product does not cut grass when it operates along a transport path. Refer to *To make a maintenance point on page 20*.

2.3.1 Connectivity

Husqvarna Fleet Services™ is the digital tool to install, operate and monitor professional robotic mowers. Available on the web on www.husqvarna.com and as an mobile app, with support for Bluetooth® technology and remote control.

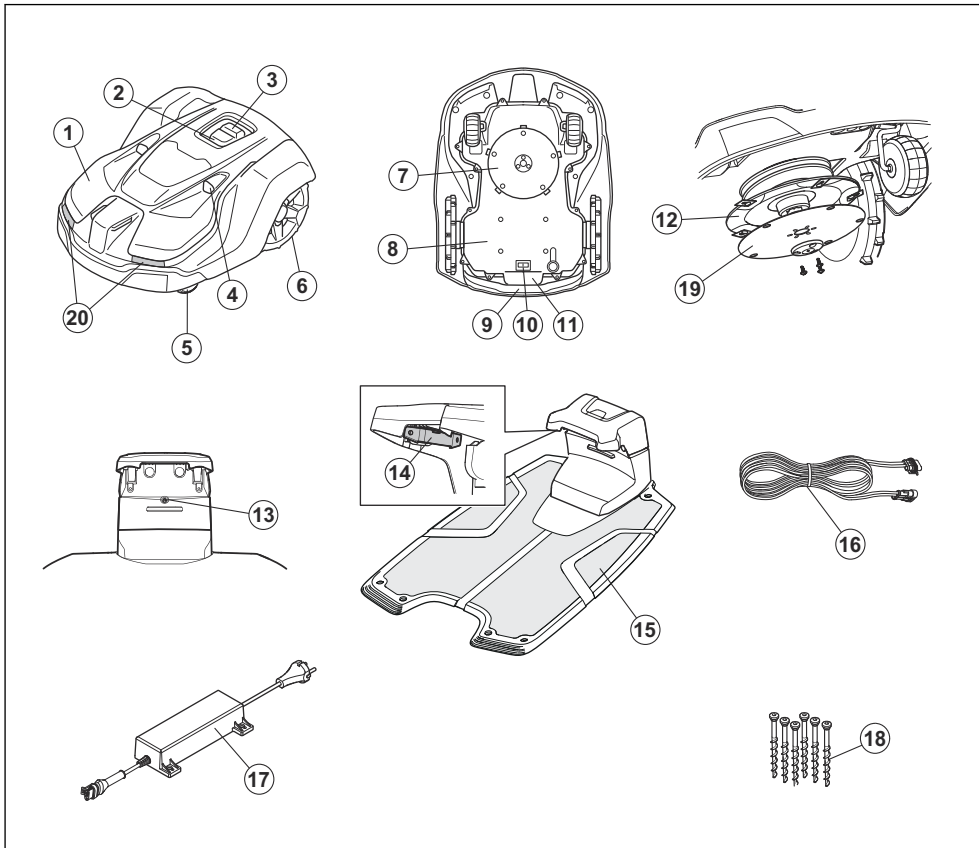
2.4 System overview



- | | |
|-----------------------------------|------------------------|
| 1. Satellites | 8. Stay-out zone |
| 2. Satellite signals | 9. Work area |
| 3. Husqvarna® Cloud | 10. Mobile device |
| 4. Reference station ¹ | 11. Docking point |
| 5. Correction data | 12. Transport path |
| 6. Charging station | 13. Robotic lawn mower |
| 7. Virtual boundary | |

¹ Optional accessory which is purchased separately.

2.5 Product overview



- | | |
|--|---|
| 1. Body | 15. Charging station |
| 2. LED indicator lamp of the product | 16. Low-voltage cable |
| 3. STOP/START button | 17. Power supply ³ |
| 4. Ultrasonic sensors ² | 18. Screws to attach the charging station |
| 5. Front wheels | 19. Skid plate |
| 6. Rear wheels | 20. Warning lights |
| 7. Cutting system | |
| 8. Chassis box with electronics, battery and motors | |
| 9. Handle | |
| 10. Main switch | |
| 11. Rating plate (including product identification code) | |
| 12. Blade disc | |
| 13. LED indicator lamp of the charging station | |
| 14. Contact plates | |

2.6 Symbols on the product

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

² Only for Automower® 550 EPOS®.

³ The appearance can be different for different markets.



WARNING: Read the user instructions before operating the product.



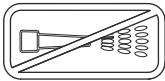
WARNING: Disable the product before working on or lifting the product.



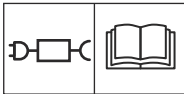
WARNING: Keep a safe distance from the product when operating. Keep your hands and feet away from the rotating blades.



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



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



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



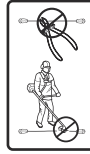
This product complies with the applicable EU Directives.



The product is not domestic waste. Recycle it at an approved disposal location for electrical and electronic equipment.



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



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

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

2.7 Symbols on the battery



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



Read the user instructions.



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



Do not immerse the battery into water.

2.8 Product damage

We are not responsible for damages to our product if:

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

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.
- Reference station⁴, that receives satellite signals and sends correction data to the robotic lawn mower.
- Mobile device with the Husqvarna Fleet Services™ app to do the installation and the settings for the product.

3.3 To prepare for installation



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



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

- Make a blueprint of the work area and include all obstacles. This makes it easier to examine where to put the charging station, the reference station, and the virtual boundaries.
- Make a mark on the blueprint where to put the charging station, the reference station, the maintenance point, the transport paths and the virtual boundaries for the work areas and stay-out zones.
- If you have an installation that uses EPOS® through Husqvarna® Cloud, make sure that the product can receive correction data in the complete work area.
- If you have an installation with a reference station, make sure that the product can receive radio

signals from the reference station in all parts of the work area.

Note: The maximum distance decreases if there are objects between the reference station and product.

- Make sure that the work area where the product operates has unimpeded sky view.
 - Fill in holes in the lawn to make it level.
 - Cut the grass before you install the product. Make sure that the grass is maximum 5 cm / 2 in.
-

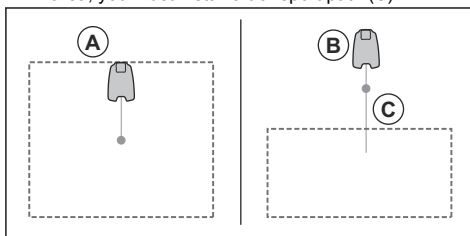
Note: The first weeks after installation the sound level when the product cuts the grass can be higher than usual. The sound level decreases after some time.

3.4 To examine where to put the reference station

Read and understand the instructions about where to put the reference station. Refer to the Operator's manual for the reference station.

3.5 To examine where to put the charging station

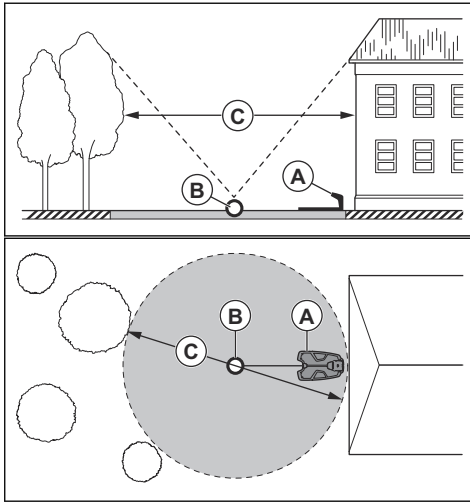
- You can put the charging station in the work area or not in the work area. No transport path is necessary if the charging station is put in the work area (A). No transport path is necessary if the product is fully in the work area when it is at the charging station docking point. If the charging station and docking point (B) are not in the work area, you must install a transport path (C).



- You can put the charging station in an Automower® house.
- Put the charging station (A) where the docking point (B) has unimpeded sky view. The charging station docking point (B) is where the product stops after reversing from the charging station. The reversing distance can be set to 70-250 cm / 28-98 in. Husqvarna recommends to have a minimum of

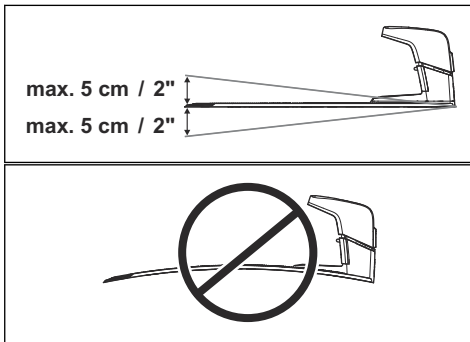
⁴ Optional accessory which is purchased separately.

6 m / 19.6 ft. (C) free space in front of the charging station.



Note: Short reversing distance decreases the risk of track marks. A long reversing distance can be necessary to have good satellite signals at the docking point.

- 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.



- If the work area has 2 parts separated with a steep slope, Husqvarna recommends to put the charging station in the lower section.



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

3.6 To examine where to put the power supply



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



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



- Put the power supply in an area with a roof and protection from the sun and rain.
- Put the power supply in an area with good airflow.
- Use a power outlet that has a Class A ground fault circuit interrupter (GFCI) or a residual-current device (RCD) with a maximum rated value of 30 mA.

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

3.7 To examine where to install the objects on the map



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: 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 boundaries.

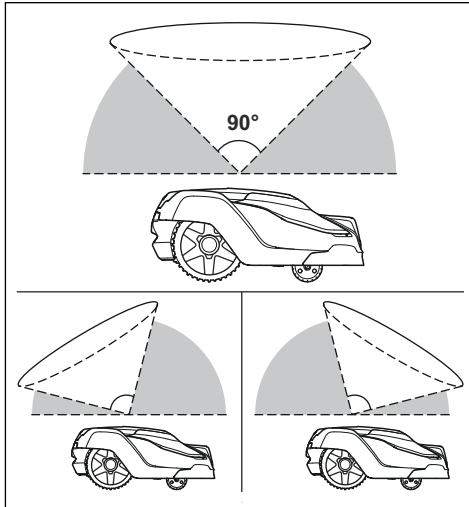
- Husqvarna recommends a maximum distance from the charging station to the most remote part of the installation. For Automower® 550 EPOS®, the maximum distance is 250 m / 800 ft. For

Automower® 520 EPOS®, the maximum distance is 150 m / 500 ft.

Note: The maximum distance decreases if there are slopes and high grass.

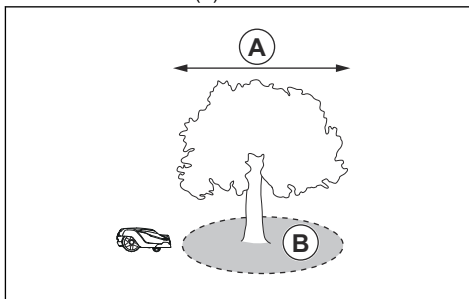
3.7.1 To install map objects near buildings and trees

- Make sure that 90° section of the sky is unimpeded.



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

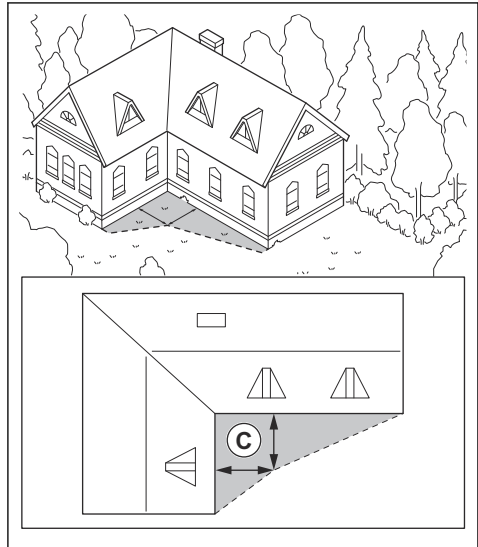
- Make a stay-out zone (B) around trees or a group of trees with tree canopies that are more than 4 m / 13 ft. in diameter (A).



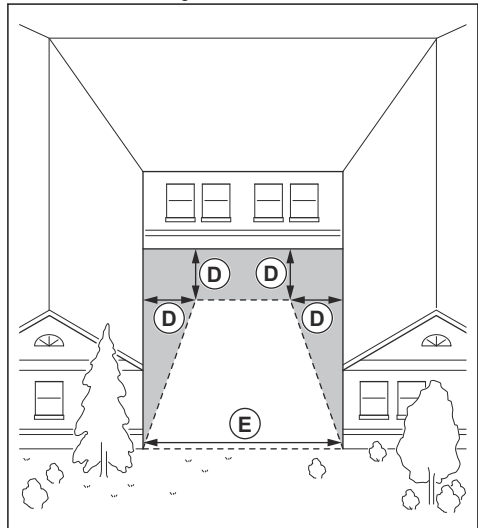
Note: Trees or a group of trees with tree canopies that are more than 4 m / 13 ft. in diameter (A) can cause temporary stops for the product.

Smaller trees do usually not cause interference with the operation of the product.

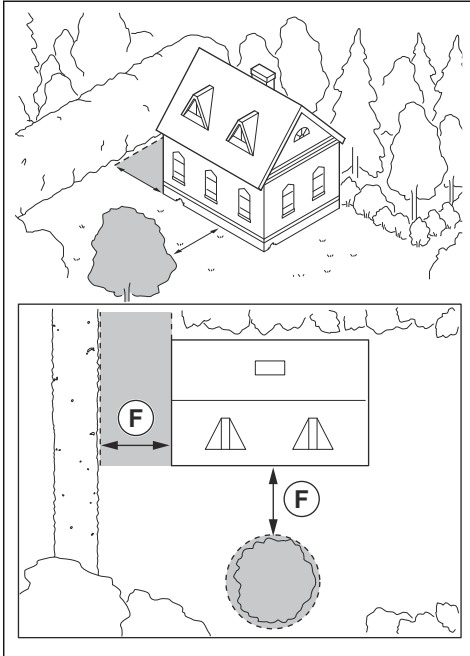
- For L-shaped buildings, install the virtual boundary at a minimum distance (C) of 1.5 m / 5 ft. from it.



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

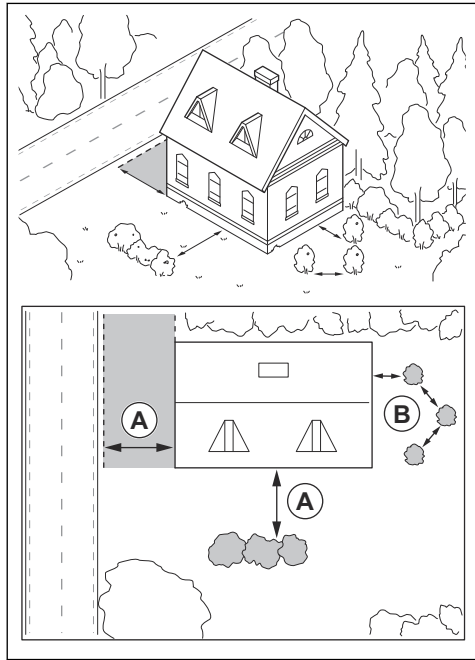


- Make sure that the areas between objects have a distance (F) of minimum 4 m / 13.1 ft.



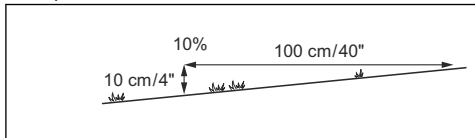
3.7.2 To examine where to install objects on the map in narrow passages

- Make sure that a passage between objects less than 1 m / 3.3 ft. has a minimum width of 2 m / 6.6 ft.
- Make sure that a passage between one object lower than 1 m / 3.3 ft. and one object higher than 1 m / 3.3 ft. has a minimum width (A) of 2 m / 6.6 ft.
- Make sure that the distance between objects (B) lower than 1 m / 3.3 ft. is minimum 1 m / 3.3 ft.

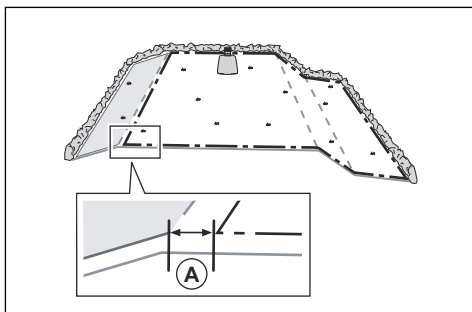


3.7.3 To install the map objects in a slope

The product can operate in 45% slopes. Virtual boundaries can be installed in maximum 15% slopes. The slope (%) is calculated as height for each m. Example: 10 cm / 100 cm = 10%.



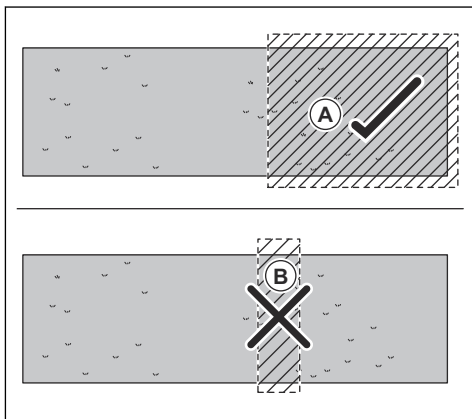
- For slopes more than 45% in the work area, isolate the slope with a stay-out zone.
- For slopes that are more than 15% along the outer edge of the lawn. For installation of the virtual boundary, operate the product with the rear wheel 5 cm / 2 in. (A) from the edge.



- For slopes adjacent to a public road, put a fence or a protective wall along the outer edge of the slope.
- Husqvarna recommends to set the direction of the systematic pattern straight up the slope to prevent wear on the grass.
- Install the virtual boundaries in slopes that are maximum 15%.

3.7.4 To examine where to make stay-out zones

- Make stay-out zones around objects that are larger than 2x2 m / 6.6x6.6 ft.
- Make sure that the stay-out zone is minimum 30x30 cm / 1x1 ft.
- Make sure that the stay-out zone includes the complete area (A) where the product must not enter.



Note: Do not make a stay-out zone (B) across the work area to prevent the product to enter parts of the work area.

3.8 Installation of the product

3.8.1 To install the product

Do the general steps that follow to install the product:

1. Install the reference station. Refer to the Operator's manual for the reference station.
2. Install the charging station. Refer to *To install the charging station on page 15*.
3. Do a pairing operation of the product and the Husqvarna Fleet Services™ app. Do the basic settings in the start up sequence in the app. Refer to *To do a pairing operation with the Husqvarna Fleet Services™ on page 16*.
4. Make a map with work areas, stay-out zones, transport paths and maintenance points. Refer to *To install objects on the map on page 17*.
5. Use Husqvarna Fleet Services™ app to do settings for the product. Refer to *Settings on page 21*.

3.8.2 Installation tools

- Hex key, 8 mm. Included in the carton.

3.8.3 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 11*.



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



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

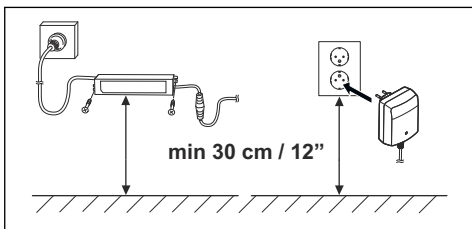


WARNING: Make sure that the plugs of the low-voltage cable and the power supply unit are clean and dry before you connect them.

When you connect the power supply, only use a power outlet with a Class A ground fault circuit interrupter (GFCI) or a residual-current device (RCD) of maximum 30 mA.

3.8.3.1 To install the charging station

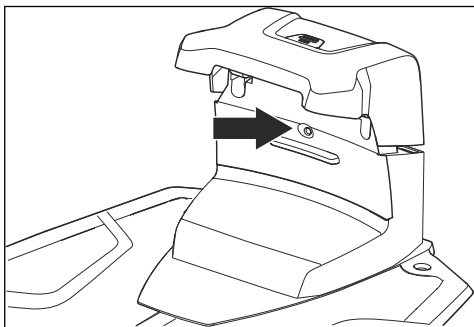
1. Put the charging station in the selected area.
2. Attach the charging station to the ground with the supplied screws.
3. Connect the low-voltage cable to the charging station and to the power supply unit.
4. Put the power supply at a minimum height of 30 cm / 12 in. Refer to *To examine where to put the power supply on page 12*.



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.

3.8.3.2 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. Refer to *LED indicator lamp on the charging station on page 37* for information about the LED indicator.



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 15* and *LED indicator lamp on the charging station on page 37*.

3.8.4 Installation of the reference station

Install the reference station according to the instructions in the Operator's manual for the reference station.

3.8.5 To do a pairing operation with the Husqvarna Fleet Services™

1. Download the Husqvarna Fleet Services™ app to your mobile device.
2. Log on to the Husqvarna Fleet Services™ app.
3. Set the product to ON.
4. Start Bluetooth® on your mobile device.
5. Push the Bluetooth® button on the product to enable the Bluetooth®.

Note: Other devices with Bluetooth® enabled can cause interference with the pairing operation. Disable Bluetooth® on the other devices if it causes interference with the pairing operation.

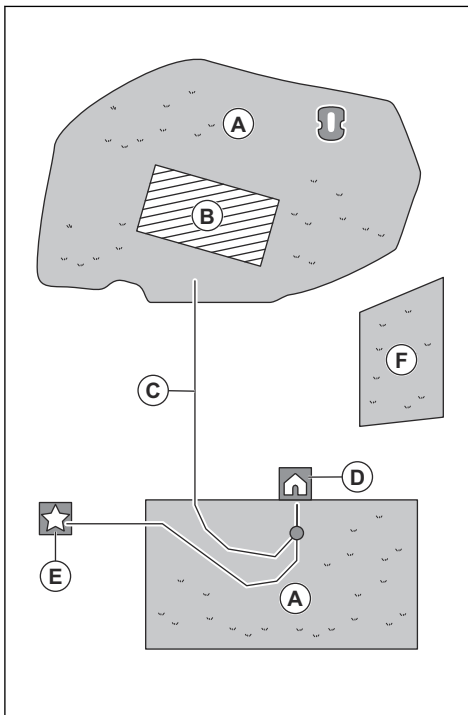
6. Select *Add robotic mower* in the app to add your product and follow the instructions in the app.

3.8.6 Installation of the map objects

Read and understand the instructions about where to install the map objects. Refer to *To install objects on the map on page 17*.

On the map you can install the objects that follow in the app:

- *Work areas (A)*
- *Stay-out zones (B)*
- *Transport path (C)*
- *Charging station (D)*
- *Maintenance point (E)*
- *Work area (Secondary area) (F)*

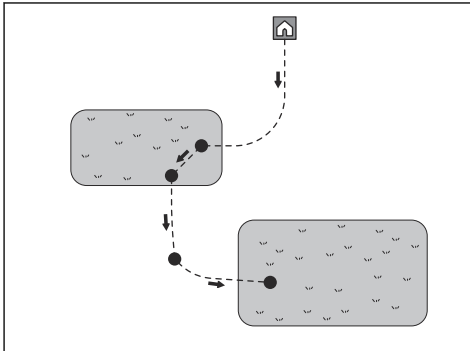


A work area is specified by virtual boundaries. Maximum 20 work areas and secondary areas can be installed on a map. Work areas can temporarily be enabled and disabled in the app.

There are two types of work areas:

- A work area that has a charging station in it or connected to it with a transport path where the product operates automatically.
- A secondary area is a work area with no charging station and no transport path. The product must be moved manually to and from the work area.

A transport path is a specified path between the docking point in front of the charging station and work areas. The product can operate automatically in this path, but does not cut grass. A transport path can temporarily be enabled and disabled in the app. One transport path can be used to guide the product to multiple areas. At least one waypoint for the transport path needs to be put inside the work area.



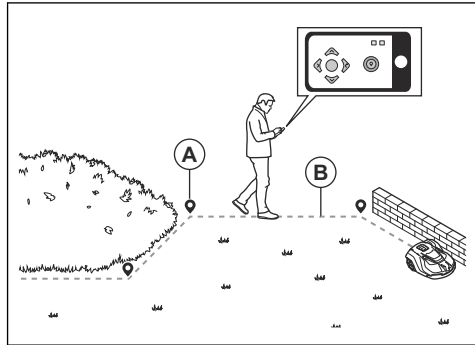
Stay-out zones can be made if there are areas where the product must not operate. A stay-out zone is specified by virtual boundaries. Stay-out zones can temporarily be enabled and disabled in the app.

A maintenance point is a specified position where the product can be parked at. This can for example be used for a service point where maintenance of the product is done. The maintenance point is connected to the docking point with a path.

To install objects on the map, operate the product with the appDrive installation to add waypoints on the map. Refer to *To install objects on the map on page 17*.

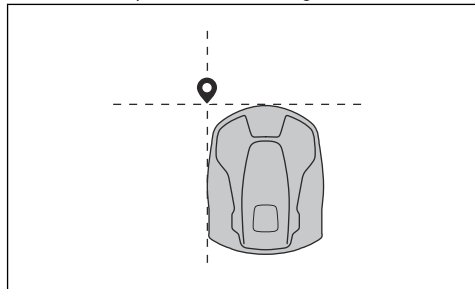
3.8.6.1 To install objects on the map

The waypoints (A) are positions that makes the virtual boundaries and paths (B). The lines are straight between the waypoints. It is recommended to use as few waypoints as possible. For each work area and the related stay-out zones and transport path the total maximum number of waypoints are 800. Husqvarna recommends to add maximum 1000 waypoints for the complete installation of the map. To make smooth curves use several waypoints. Husqvarna recommends to set the minimum distance of 30 cm / 1 ft. between the waypoints. You can adjust the positions of the waypoints in the app after the installation of the map.



CAUTION: Do not lift and move the product between the waypoints when you install the map objects. Use appDrive for a correct installation.

Note: The position of the waypoint when you install a work area or a stay-out zone is in the front left corner of the product. The virtual boundaries specifies the area where the product operates. The product does not cut the grass that is adjacent to the virtual boundary because of the position of the cutting disc.



Note: The position of the waypoint when you install a transport path or a path to a maintenance point is in the middle of the product between the drive wheels.



- Make sure that you are near the product and connected to the product with the app with Bluetooth®.
- Select the object you want to install and use the buttons in the appDrive installation to operate the product.

Note: A game controller with Bluetooth® can be used together with appDrive to operate the product.

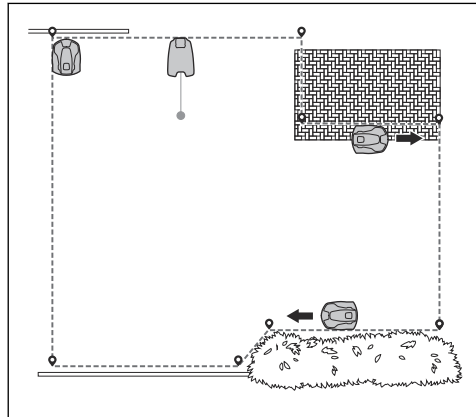
- Use the joystick to move and rotate the product in any direction.
- Use the **waypoint** button to add a waypoint in the map.

Note: Walk 2-3 m / 6.5-9.8 ft. behind the product when you operate the product with appDrive.

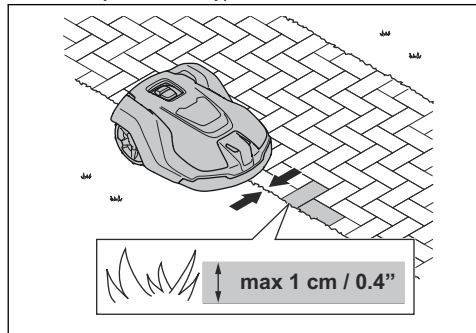
To make a work area

Minimum 3 waypoints are necessary to make a work area.

- Operate the product clockwise around the boundary of the work area and add waypoints.

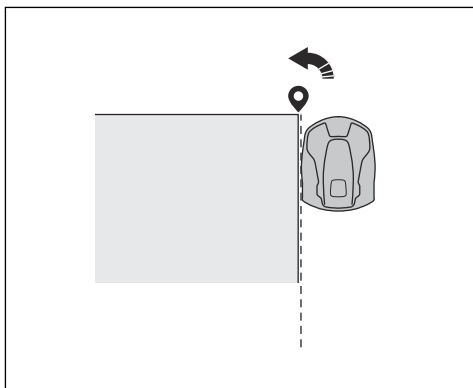


- Add a waypoint to make the product cut the grass at the edge between the lawn and the stone path. Make sure that you straddle the edge of the lawn when you add a waypoint.

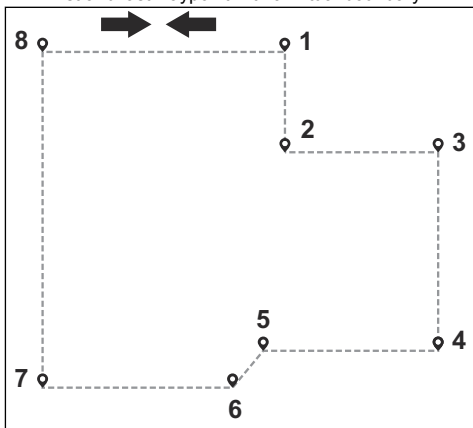


Note: The product can straddle the edge if the height of the stone path is maximum 1 cm / 0.4 in. in relation to the lawn

- Add the waypoint at the outer corner to install the virtual boundary around a corner.



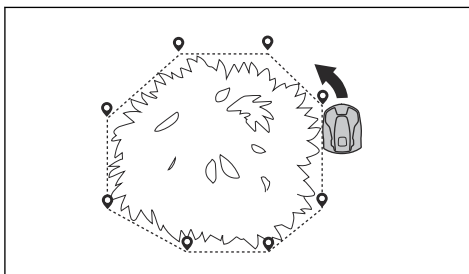
- Do not set waypoints that make a virtual boundary go across itself in the same work area.
- Save the work area to automatically connect the first and last waypoint with a virtual boundary.



To make a stay-out zone

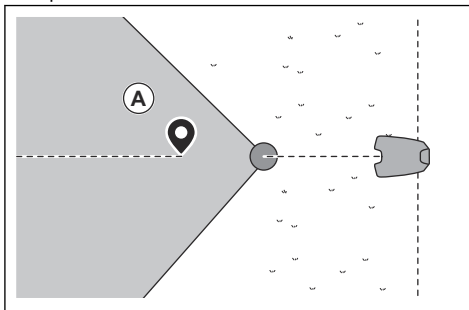
Minimum 3 waypoints are necessary to make a stay-out zone.

- Operate the product counterclockwise around the boundary of the stay-out zone, or select a set shape from the app.
- Do not set waypoints that make a virtual boundary go across itself in the same stay-out zone.
- Save the stay-out zone to automatically connect the first and last waypoint with a virtual boundary.

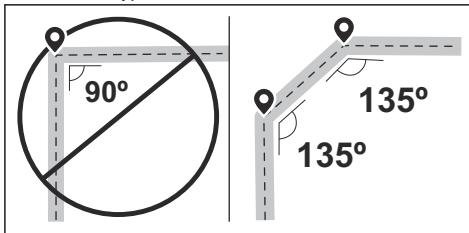


To make a transport path

- Operate the product and add waypoints on the map to install a transport path. Start either from the work area or near the charging station.
- Set the first or last waypoint in the work area at a minimum distance of 1 m / 3.3 ft. from the virtual boundary.
- Put the first or last waypoint on a transport path (A) in an angle of ± 45 degrees seen from the docking point.

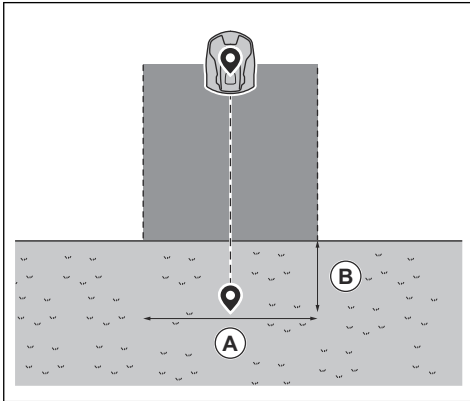


- Install the transport path perpendicular to the virtual boundary of the work area.
- Do not install a transport path across a stay-out zone.
- Do not set waypoints that make the transport path go across the same transport path.
- Do not make sharp bends when you install the transport part. Husqvarna recommends to add more waypoints to make smoother curves.

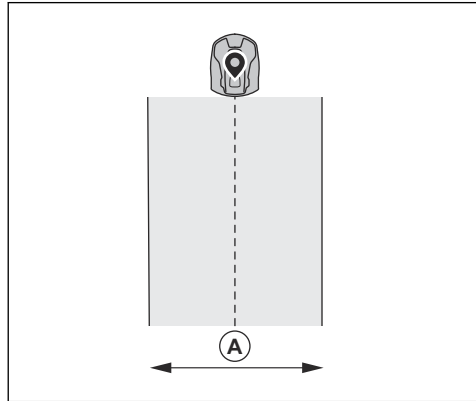


- Operate the product and add waypoints to connect the transport path to the docking point.
- Save the transport path to automatically connect the transport path to the docking point.

- Set the corridor width (A) for the transport path. The corridor width can be set to 2–5 m / 6.6–16.4 ft.

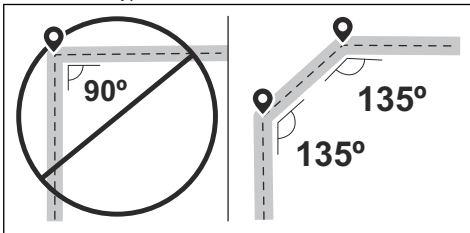


- Set the corridor width (A) for the maintenance point. The corridor width can be set to 2–5 m / 6.6–16.4 ft.

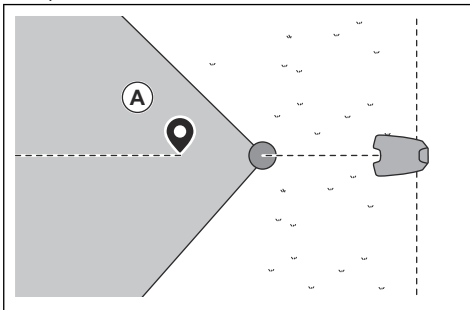


To make a maintenance point

- Operate the product and add waypoints on the map. Start to add waypoints at the position where you install the maintenance point. The first waypoint specifies the maintenance point.
- Do not make sharp bends when you install a transport part. Husqvarna recommends to add more waypoints to make smoother curves.



- Operate the product and add waypoints to make a path to the charging station.
- Put the last waypoint on a transport path (A) in an angle of +/-45 degrees seen from the docking point.



- Save the maintenance point to automatically connect the last waypoint to the docking point.

4 Settings

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

4.1 Areas



4.1.1 Schedule



In the *Schedule* menu you can change the schedule settings for the product. You can set separate schedule settings for each work area. *Secondary areas* cannot be scheduled. The schedule function controls which hours the product is permitted to operate. When the product does not operate, it is parked in the charging station.

The shape of the work area, number of obstacles and slopes decreases the mowing capacity.

	Systematic mowing	Irregular mowing
Area capacity – sports 24	Mowing every day	Mowing every day
Area capacity – standard 48	Mowing every second day	Mowing every day

The maximum area capacity for the product varies with the type of application and turf quality.

- Area capacity – sports 24: This is the maximum area capacity for sports fields and golf fairways that need to be mowed every day (24 hours). Applicable to well-managed, lush, and dense turfs, as well as turfs mowed at a low cutting height.
- Area capacity – standard 48: This is the maximum area capacity for most turfs, such as facility areas and golf roughs that need to be mowed systematically every second day (48 hours). With irregular pattern, mowing every day is needed. Valid for standard turf quality mowed at medium cutting height.

4.1.1.1 To set the schedule for systematic mowing

- Set the schedule to let the product operate for as long time as possible.

Note: After the product has cut the full work area, it goes back to the charging station. When

the next session starts, the product cuts the full work area again.

Note: If the product has not cut the full work area before the session ends, it goes back to the charging station. When the next session starts, the product continues to cut from where it stopped.

- To cut a work area 2 times a day, you can set 2 different schedules. Set the schedule for the product to have sufficient time to cut the complete work area.
- With 2 or more parallel schedules, the product starts to cut where it has not cut for the longest time.
- Make sure that the product completes to cut each work area in less than 24 hours. If the product must cut a work area for more than 24 hours, divide the work area into smaller work areas.

4.1.1.2 To set the schedule for irregular mowing

The product operates the complete scheduled time with irregular mowing.

- Decrease the scheduled time to prevent wear on the grass.
- If the cutting result is not satisfactory, increase the scheduled time. Refer to *Schedule on page 21*.
- With 2 or more parallel schedules in different work areas, the product first starts to cut 1 work area. After each charging of the product, the product starts to cut another work area.

4.1.2 Cutting height



The cutting height is set individually for each work area. The cutting height can be set to 20-60 mm / 0.8-2.4 in.

4.1.3 Pattern



The settings for the pattern is set for each work area. You can do these settings:

- Set the pattern for how the product operates.
- For some patterns you can set the direction of the pattern.
- For some patterns you can set the type of the *Border mowing*. With *Fixed border mowing* the

product always operates in the same paths to keep a sharp border around the work area. With *Variable border mowing*, the product operates in different paths to decrease the risk of track marks along the virtual boundary.

Husqvarna recommends to use systematic pattern on large and open work areas. If you use systematic pattern on a work area with obstacles, make stay-out zones around obstacles and use a pattern with many directions for the best possible cutting result.

Husqvarna recommends to use irregular pattern if the work area is complex and has many obstacles.

4.2 Configuration

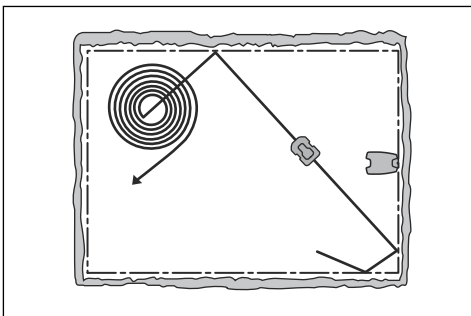


4.2.1 General settings

4.2.1.1 Spiral cutting

Spiral cutting is only applicable for work areas with irregular pattern. 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* does not start in slopes steeper than 15%.



4.2.1.2 Weather timer

Weather timer automatically adjust the cutting time to the growth of the grass. *Weather timer* adjusts the cutting time only for work areas with irregular pattern. The product is not permitted to operate more than the schedule settings.

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

The first operation of the day is set by the schedule settings. The product completes 1 mowing cycle per scheduled work area, then the *Weather timer* selects if the product continues to operate.

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

4.2.1.3 ECO mode

ECO mode disables the signal in the charging station when the product is parked or is charging. The LED indicator of the charging station flashes green when the loop signal is disabled.

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

Note: To start the product manually in the work area you must first enable the loop signal.

To enable the loop signal

1. Set the product to ON.
2. Put the product in the charging station.
3. Push the **STOP** button.
4. Wait 2 seconds and then remove the product from the charging station.
5. Make sure that the LED indicator of the charging station is solid green.
6. Put the product where you want it to start to cut.

4.2.1.4 Warning lights

There are 4 different settings that control when the warning lights are on:

- *Always on*
- *Evening only (19:00-00:00)*
- *Evening and night (19:00-07:00)*
- *Always off*

The warning lights can be set to *Strobe amber light* or to *Amber light*.

Note: Husqvarna recommends to use the warning lights especially at night time.

4.2.1.5 To avoid collisions with the Automower® house

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

4.2.2 Security settings

4.2.2.1 Alarm duration

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

4.2.2.2 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.

4.2.2.3 Carried away

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

4.2.2.4 GeoFence

GeoFence is a GPS-based theft protection that makes a virtual fence for the product. If the product is more than a set distance away from the center position the product will be disabled and an alarm will start. The center position sets to the current position of the product when GeoFence is enabled. The PIN code is necessary to stop the alarm and to start the product again. The GeoFence is only enabled when the product is set to ON.

4.2.3 Installation settings

4.2.3.1 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.

4.3 Bluetooth® menu

The Bluetooth® menu is only accessible in the app version of Husqvarna Fleet Services™. For safety and security reasons, some menus are only available with Bluetooth® connection.

To connect to the product with Bluetooth®, you must be within Bluetooth® range of the product, approximately 30 m / 100 ft. Push the Bluetooth® icon in the app to connect with Bluetooth®.

4.3.1 Security settings

4.3.1.1 Change PIN code

You can change the PIN code. Make a note of the new PIN code in Memo. Refer to *Introduction on page 7*.

4.3.2 General

4.3.2.1 Time & date

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

4.4 Error log

In this menu the previous fault messages can be found. There are also tips and advice to help to rectify the fault. If the same message is repeated several times, this may indicate that an adjustment to the installation or the product is required.

4.5 Download firmware over the air (Firmware over the air FOTA)

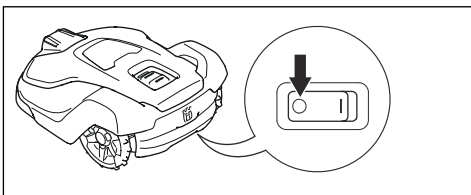
The product has a function that automatically downloads new firmware. When a new firmware is available, a notification shows in the app where you can select to install the new firmware. In the factory setting this function is enabled. Husqvarna recommends you to update the firmware when new firmware is available.

5 Operation

5.1 Main switch



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



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

5.2 To set the product to ON

1. Push the **STOP** button on the product.
2. Set the **Main switch** to the *1* position.
3. Open the Husqvarna Fleet Services™ app.
4. Enter the PIN code.

5.3 Operate according to schedule

The product operates to the set schedule in the work area where it cuts the grass and charges automatically.

5.3.1 To select scheduled operation in the app

1. Open the app on your mobile device.
2. Select *Start > Resume Schedule*.

5.4 Mow a selected work area or override schedule

You can select to mow a specified work area in the app. For work areas with irregular pattern you can set for how long the product operates. For work areas with systematic pattern, the products mows the full work area one time and then park.

5.4.1 To select the work area in the app

1. Open the app on your mobile device.
2. Select *Start*.
3. Select the work area.

5.5 Park

The operation mode *Park* means that the product goes back to the charging station. The product stays in the charging station for a selected period of time or until you select a new operation mode.

5.5.1 To select Park in the app

1. Open the app on your mobile device.
2. Select *Park*.
3. Select for how long the product must stay in the charging station.

5.6 Park at Maintenance point

You can park the product at the maintenance point to do maintenance on the product.

5.6.1 To park the product at the maintenance point with the app

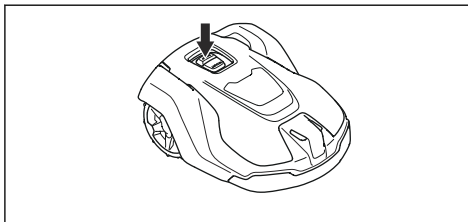
1. Open the app on your mobile device.
2. Select *Park > Maintenance point*.

The product is parked at the maintenance point until you select a new operation mode.

5.7 To stop the product

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

The product stops and the cutting motor stops.



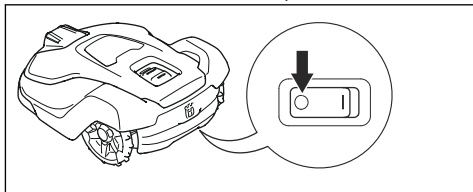
Note: When you push the **START** button again, the product continues to operate in the same operating mode as before.

5.8 To set the product to OFF

1. Push the **STOP** button.
2. Connect the product with Bluetooth® short-range in the app.

Note: The product cannot be set to OFF if it is not connected to the app with Bluetooth®.

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



5.9 To charge the battery

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

1. Set the **Main switch** to the 1 position.
2. Put the product into the charging station until the charging plates touch the contact plates.
3. Do a check that the product charges in the Husqvarna Fleet Services™ app.

6 Maintenance

6.1 Introduction - maintenance



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



WARNING: Use protective gloves.

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

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

It is important that the blade disc rotates easily and that the edges of the blades are not damaged. The usual lifetime of the blades are 2 to 5 weeks. The conditions that follow can increase or decrease the lifetime of the blades:

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

Note: The cutting result can be unsatisfactory if the blades are blunt. Refer to *Replacement of the blades on page 28* on how to replace the blades.

6.2 Maintenance schedule

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

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

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

	Weekly	Every year	Every third year
To prepare			
Clean the product. Refer to <i>Clean the product on page 27</i> .	X		
Examine the product for damage and wear.	X		
Do an update of the firmware.		O	
Do a check of the servicing messages for recommended upgrades.		O	
Servicing			
Examine the blades and replace the blades and blade screws if it is necessary. Refer to <i>Replacement of the blades on page 28</i> .	X		
Examine and polish the contact plates on the charging station.		X	
Examine and polish the charging plates on the product.		X	
Charge the battery fully before you put the product into storage. Refer to <i>To charge the battery on page 25</i> .		X	
Examine the wheels for wear.		O	
Examine and clean the collision columns. Do a check of the tightening torque on the front and rear collision columns.		O	
Make sure that the product is docking and charging correctly.		O	

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

6.3 Clean the product

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

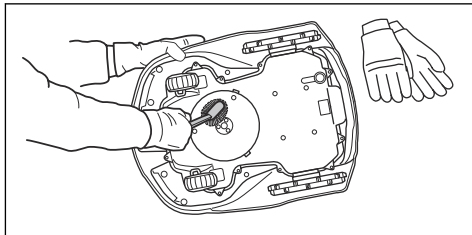


CAUTION: Do not use a high-pressure washer to clean the product and the charging station. Do not use solvents for cleaning.

6.3.1 To clean the chassis and blade disc

Examine the blade disc and blades weekly.

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



6.3.2 To clean the chassis

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

6.3.3 To clean the wheels

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

- Use a soft brush to clean the wheels.

6.3.4 To clean the body of the product

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

6.3.5 To clean the charging station



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



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

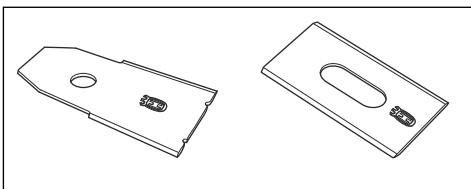
Note: The product cannot enter the charging station if there are objects in the charging station. Clean the charging station regularly.

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

6.4 Replacement of the blades



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

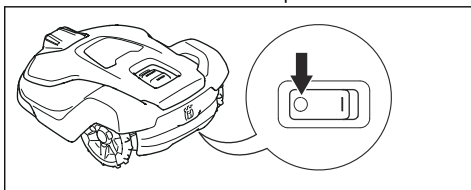


WARNING: You must replace the screws when you replace the blades. The used screws can wear quickly and make the blade come loose, this can cause serious injury.

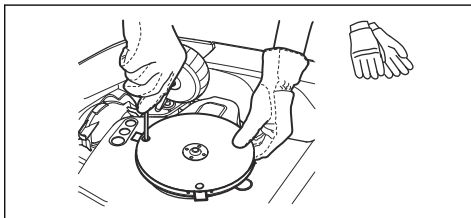
Replace worn or damaged blades for a safe operation. Replace the blades regularly for a satisfactory cut result and a low energy use. All 5 blades and screws must be replaced at the same time to get a balanced cutting system.

6.4.1 To replace the blades

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



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

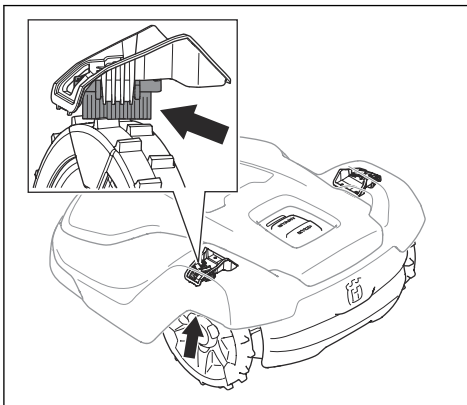


6. Remove the 5 blades.
7. Attach 5 new blades and screws.

8. Make sure that the blades can pivot freely.

6.5 Replace the wheel brushes

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



6.6 Battery



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

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

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

6.7 Winter service

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

Service usually includes the following:

- Thorough cleaning of the body, the chassis, the blade disc and all other moving parts.
- Testing of the product's function and components.

- Checking and, if required, replacing wear items such as blades and bearings.
- Testing the product's battery capacity as well as a recommendation to replace battery if necessary.
- If new firmware is available, the product is updated.

7 Troubleshooting

7.1 Messages

The messages in the table below are shown in the app. Speak to your Husqvarna representative if the same message shows frequently.

Message	Cause	Action
<i>Cutting system blocked</i>	The blade disc is blocked by grass or other objects.	Examine the blade disc and remove the grass or other object.
	The blade disc is in water.	Move the product and prevent the collection of water in the work area.
	The grass is high and thick.	Adjust the cutting height to the height of the grass. Adjust the schedule settings to increase the operation time.
<i>Trapped</i>	The product is behind a number of obstacles in a small area.	Examine the area and remove the obstacles which make it hard for the product to move away from this location.

Message	Cause	Action
<i>No charging station signal</i>	The power supply or the low-voltage cable for the charging station is not connected.	If the LED indicator on the charging station is out, it shows that there is no power. Examine the power outlet connection and the residual-current device. Make sure that the low-voltage cable is connected to the charging station.
	The power supply or the low-voltage cable for the charging station is damaged.	Replace the power supply or low-voltage cable.
	<i>ECO mode</i> is enabled and the LED indicator of the charging station flashes green. The product was started manually in the work area but the STOP button was not pushed before the product was moved from the charging station. The charging station signal is disabled and the product cannot enter the charging station. Refer to <i>ECO mode</i> on page 22.	Put the product in the charging station. Start the product. Refer to <i>To set the product to ON</i> on page 24.
	The product does not find the loop signal from the charging station.	Put the product in the charging station and make a new loop signal. Refer to <i>New loop signal</i> on page 23.
	The charging station is not installed correctly.	Install the charging station according to the instruction. Refer to <i>To install the charging station</i> on page 15.
	Interference from metal objects such as fences, reinforcement steel or buried cables near the charging station.	Change the position of the charging station.
<i>Outside work area</i>	The work area slopes too much by the virtual boundary.	Make sure that the virtual boundary is installed correctly. Refer to <i>To install objects on the map</i> on page 17.
	The transport path or the path to the maintenance point slopes too much.	Make sure that the transport path is installed correctly. Refer to <i>To make a transport path</i> on page 19.
	The product can not find the correct charging station signal because of interference with a loop signal from a different product installation nearby.	Put the product in the charging station and make a new loop signal. Refer to <i>New loop signal</i> on page 23.
	Interference from metal objects such as fences, reinforcement steel or buried cables near the charging station.	Change the position of the charging station.

Message	Cause	Action
<i>Empty battery</i>	The product cannot find the charging station.	The product has no accurate position and cannot find the charging station. There is an obstacle that prevents the product to find the charging station.
	The battery is at the end of its life cycle.	Replace the battery. Refer to <i>Battery on page 28</i> .
	The antenna of the charging station is defective.	If the LED indicator on the charging station flashes red, the antenna of the charging station is defective. Speak to your approved servicing dealer.
<i>Slipped</i>	The product has hit an obstacle and stopped or the wheels cannot move on the wet grass.	Move the product and correct the cause of problem. If it is because of wet grass, wait until the lawn is dry before you use the product.
	The work area includes a steep slope.	Maximum guaranteed slope is 45%. Steeper slopes should be isolated. Refer to <i>To install the map objects in a slope on page 14</i> .
<i>Wheel motor overloaded right, left</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 connection between the charging plates on the product and the contact plates on the charging station is not good. The product made a number of tries to charge.	Put the product in the charging station and make sure that the charging plates and contact plates are connected.
	An object prevents the product to enter the charging station.	Remove the object.
	The charging station tilts or is bent.	Put the baseplate on level ground.
<i>Stuck in charging station</i>	An object prevents the product to move out from the charging station.	Remove the object.
	The baseplate has a wet or dirty surface that prevents the product to move out from the charging station.	Clean the baseplate of the charging station.
<i>Upside down</i>	The product tilts or is with the top down.	Put the product in the correct position.
<i>Mower tilted</i>	The product tilts more than the maximum angle.	Move the product to an area that has level ground.
<i>Lifted</i>	The lift sensor was enabled because the product was lifted.	Move the product. If the problem stays, speak to your approved servicing dealer.
<i>Collision</i>	The body of the product cannot move freely around its chassis.	Remove dirt or object between the chassis and the body of the product. Make sure that the body of the product can move freely around its chassis.
	The product cannot move forward or rearward.	Remove the object that prevents the product from operation.

Message	Cause	Action
<i>Wheel motor blocked right/left</i>	The wheel is blocked by grass or other objects.	Examine the wheel and remove grass or other objects.
<i>Alarm! Mower stopped</i>	The alarm was started because the product was stopped.	Adjust the security settings in the <i>Security</i> menu. Refer to <i>Security settings</i> on page 23.
<i>Alarm! Mower outside Geo-fence</i>	Alarm was started because the product was moved out of the GeoFence area.	
<i>Alarm! Mower was moved</i>	The alarm was started because the product was moved.	
<i>Electronic problem</i>	Temporary electronic or firmware problem in the product.	Restart the product. If the problem stays, speak to your approved servicing dealer.
<i>Loop sensor problem</i>		
<i>Tilt sensor problem</i>		
<i>Temporary problem</i>		
<i>Invalid sub-device combination</i>		
<i>Temporary battery problem</i>		
<i>Faulty mix of batteries</i>		
<i>Collision sensor problem</i>		
<i>Lift sensor problem</i>		
<i>Ultrasonic problem</i>		
<i>GPS navigation problem</i>		
<i>Charging system problem</i>	There is corrosion or dirt on the charging plates and contact plates.	Restart the product. Clean the charging plates on the product and the contact plates on the charging station.
	Temporary electronic or firmware problem in the product.	Restart the product. If the problem stays, speak to your approved servicing dealer.
<i>Battery problem</i>	Temporary battery or firmware problem in the product.	Restart the product. If the problem stays, speak to your approved servicing dealer.
	Incorrect type of battery.	Use only original batteries recommended by the manufacturer.
<i>Battery temperature outside limits</i>	The product cannot start because the temperature in the battery is too high or too low.	The product will start to operate when the temperature of the battery has decreased. Make sure that the charging station is put in an area with protection from the sun.
<i>Charging current too high</i>	Incorrect or defective power supply unit.	Examine that the power supply unit and charging station are not defective. Make sure that you use the correct power supply unit and charging station. Restart the product. If the problem stays, speak to your approved servicing dealer.

Message	Cause	Action
<i>Map problem</i>	There is no specified work area.	Make a work area in the Husqvarna Fleet Services™ app. Refer to <i>To make a work area on page 18</i> .
	The map object file is incorrect.	Do a check of the map in the app. Adjust the map and save it.
		Delete the map and do a new installation.
<i>Work area tampered</i>	Temporary electronic or firmware problem.	Restart the product. If the problem stays, speak to your approved servicing dealer.
	The charging station has been moved.	Move the charging station to its original position or reinstall the charging station in the app to set its new position.
	The reference station has been moved.	Move the reference station to its original position or reinstall the reference station in the app to set its new position. If the reference station is moved to a new position, you have to make a factory reset and redo the installation with all maps.
<i>Wheel drive problem, right/left</i>	The wheel is blocked by grass or other objects.	Examine the drive wheel and remove grass or other objects.
<i>Searching for satellites</i>	Weak satellite signal to the reference station.	The satellite signal is temporary weak. The product will start to operate when the satellite signals are good.
		Examine the installation of the reference station. Refer to the Operator's manual for the Reference station.
	Weak satellite signal to the product.	The satellite signal is temporary weak. The product will start to operate when the satellite signal are good.
Examine if there is an object between the product and the sky that cause interference with the satellite signal. Remove the object or do a new installation to not include these parts in the work area. Refer to <i>To make a work area on page 18</i>		
<i>No accurate position from satellites</i>	Weak satellite signal to the reference station.	Examine the installation of the reference station. Refer to the Operator's manual for the Reference station.
	Weak satellite signal to the product.	Examine if there is an object between the product and the sky that cause interference with the satellite signal. Remove the object or do a new installation to not include these parts in the work area. Refer to <i>To make a work area on page 18</i>

Message	Cause	Action
<i>Reference station communication problem</i>	The product is not connected to the reference station.	Do a pairing operation between the product and the reference station.
	The reference station is not installed correctly.	Examine the installation of the reference station. Refer to the Operator's manual for the Reference station.
	The product does not receive the radio signal from the reference station in all areas where the product operates.	Test if the product has radio signal from the reference station in all of the work area. If not, make a new installation of the reference station or a new installation of the map. Refer to <i>To install objects on the map on page 17</i> .
	Power failure.	Examine and correct the cause for the power failure of the reference station.
	There is an error in the reference station and the LED indicator flashes red.	Disconnect the power to the reference station and connect it again to restart the reference station. If the problem stays, speak to your approved servicing dealer.
	There is interference with another reference station or other radio systems in the area.	Restart the product. If the problem stays, speak to your approved servicing dealer.
<i>Unexpected cutting height adj</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>Limited cutting height range</i>		
<i>Cutting height problem</i>		
<i>Cutting height blocked</i>		
<i>Cutting system major imbalance</i>	The product senses vibrations in the blade disc.	Examine the blades and screws for damages and wear. Make sure that all blades are correctly installed and that there is only one blade attached in each position on the blade disc.
<i>Cutting system imbalance</i>		
<i>Too many waypoints</i>	There are too many waypoints in the current work area.	Do a new installation of the work area, stay-out zone and transport paths. Make less waypoints. Divide the current work area into more work areas.
<i>Destination blocked</i>	The way to the destination is blocked by an obstacle.	Remove the obstacle that blocks the way to the destination.
	The way to the destination is blocked by a stay-out zone.	Edit or remove the stay-out zone or make a new installation of the work area.
	There is no transport path to the work area.	Make a transport path to the work area.

Message	Cause	Action
<i>Destination not reachable</i>	The product cannot reach the destination because there is a stay-out blocking the way to the work area.	Edit or remove the stay-out zone or make a new installation of the work area.
	There is no transport path to the work area.	Create a transport path to the work area.
	The way back to the charging station is blocked by an obstacle.	Remove the obstacle.
	The way to the maintenance point is blocked by an obstacle.	
<i>No power in charging station</i>	Incorrect or damaged power supply.	Examine the power supply. If it is necessary, replace the power supply.
	Power failure.	Examine and correct the cause for the power failure of the reference station.
	The connection between the charging plates on the product and the contact plates on the charging station is not good.	Make sure that the charging plates and contact plates are connected.
<i>Multiple reference stations</i>	There is more than one reference station near the work area. This can cause interference for the product from a different reference station.	Speak to your approved servicing dealer if the same problem occurs frequently.
<i>Connectivity problem</i>	Problem with the cellular connectivity.	Restart the product. If the problem stays, speak to your local Husqvarna representative.
<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. If the PIN code is incorrect, use the link in the app to send the PIN code to your registered e-mail address. If you have not registered the e-mail address, speak to your local Husqvarna representative.
<i>No correction data available</i>	Technical problems with EPOS® through the Husqvarna® Cloud.	Restart the product. If the problem remains, the message requires action by authorized service technician.
	The product does not have cellular connection and cannot receive correction data.	Make sure that you have cellular coverage in all parts of the area where the product operates.
<i>Invalid firmware configuration</i>	The firmware in the product is not updated.	Update the firmware to the latest version.

7.2 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	Status
Green solid light	Good signals.
Green flashing light	The signals are good and <i>ECO mode</i> is activated. Refer to <i>ECO mode on page 22</i> .
Red flashing light	Interruption in the charging station's antenna. Speak to your local Husqvarna representative.
Red solid light	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.

7.3 LED indicator on the product

The LED indicator on the control panel of the product shows the current product status:

LED indicator light	Product status
Constant green	The product cuts the lawn or moves out of the charging station.
Pulsates green	The product is preparing to start its operation.
Flashes green	The product is in <i>Pause</i> mode.
Flashes red	The product stopped because of an error.
Constant orange	The STOP button was pushed.
Flashes orange	The PIN code must be entered to start the product.
Constant blue	The product moves to the charging station or a maintenance point.
	An app is connected to the product with Bluetooth®, the LED indicator is constant blue for 3 seconds.
Pulsates blue	The product charges in the charging station.
Flashes blue	The product is parked in charging station.
	Bluetooth® is enabled and you can connect to the product with Bluetooth®.
Constant white	The product is in appDrive mode.
Pulsates white	The product sets to OFF.
	Firmware installation is in progress.
Flashes white	New firmware must be installed.

There is more information on www.husqvarna.com. Speak to your approved servicing dealer for more information.

7.4 Symptoms

If the product does not operate correctly, refer to the symptoms table below.

Symptoms	Cause	Action
The Main switch is set to the 0 position but the product is not set to OFF.	The Main switch is set to the 0 position but the product is not connected to the Husqvarna Fleet Services™ app with Bluetooth®. The product is disabled but not set to OFF.	Set the Main switch to the 1 position, connect the product to the Husqvarna Fleet Services™ app with Bluetooth® and set the Main switch to the 0 position.
The product cannot go into the charging station.	The charging station is not on a level surface.	Put the charging station on a level surface. Refer to <i>To examine where to put the charging station on page 11.</i>
	The charging station is put too far from the work area.	Make a new work area or move the charging station.
The product operates at the incorrect time.	The time and date of the product must be set.	Set the time and date. Refer to <i>Time & date on page 23.</i>
	The start and stop time for operation are incorrect.	Change the schedule settings. Refer to <i>Operate according to schedule on page 24.</i>
There is vibration in the product.	The cutting system is not in balance because of damaged blades.	Examine the blades and screws and replace them if necessary. Refer to <i>Replacement of the blades on page 28.</i>
	The cutting system is not in balance because of too many blades in the same position.	Do a check that only one blade is attached to each screw.
	Blades of different thickness are installed on the product.	Examine if the blades are of different thickness and replace the blades if necessary.
The product operates, but the blade disc does not rotate.	The product goes to the charging station.	Usual operation of the product. The blade disc does not rotate when the product goes to the charging station.
The product operates for shorter periods than usual between charges.	Grass or other object causes a blockage to the blade disc.	Remove and clean the blade disc. Refer to <i>To clean the chassis and blade disc on page 27.</i>
	The battery is at the end of its life cycle.	Replace the battery. Refer to <i>Battery on page 28.</i>
	The grass is high and thick.	Increase the cutting height and then decrease it when the grass is shorter.
Operation and charging times are shorter than usual.	The battery is at the end of its life cycle.	Replace the battery. Refer to <i>Battery on page 28.</i>

Symptoms	Cause	Action
The product is parked for hours in the charging station.	The product is parked because of the set <i>Schedule</i> setting, or because <i>Park until further notice</i> is selected.	Change the <i>Schedule</i> settings, or 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 lets the product operate. Make sure that the charging station is put in an area with protection from the sun.
The product moves in circles or spirals.	The product operates frequently in <i>Spiral cutting</i> .	Adjust the intensity of the <i>Spiral cutting</i> or disable it if it is necessary. Refer to <i>Spiral cutting on page 22</i> .
The product operates on a small area for a number of minutes.	The product follows the GPS assisted navigation.	Usual operation of the product.
The product cannot connect to the mobile device.	The product is connected to a different mobile device or app.	Disable the app in all other connected devices.
The cut result is not satisfactory.	The product operates for a short period.	Increase the cutting time. Refer to <i>Operate according to schedule on page 24</i> . Increase the intensity level in the <i>Weather timer</i> or disable the <i>Weather timer</i> .
	The work area is too large.	Set a limit to the work area, or extend the operation time. Refer to <i>Operate according to schedule on page 24</i> .
	Blunt blades.	Replace all the blades. Refer to <i>Replacement of the blades on page 28</i> .
	Long grass in relation to the set cutting height.	Increase the cutting height and then lower it when the grass is shorter.
	Collection of grass by the blade disc or around the motor shaft.	Remove the collection of grass and clean the product. Refer to <i>To clean the chassis and blade disc on page 27</i> .
	The pattern or the direction of the pattern is unsatisfactory for the work area.	Select a different direction of the pattern or a different pattern.
Worn out grass in slopes.	The slope is too steep. The maximum guaranteed slope is 45%.	Isolate the slope with a stay-out zone.
	The pattern or the direction of the pattern is unsatisfactory for the slope.	Select a different direction of the pattern or a different pattern. For systematic pattern, Husqvarna recommends that the direction of the systematic pattern is straight up the slope and not parallel to it.

8 Transportation, storage and disposal

8.1 Transportation

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

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

8.2 Storage

- Fully charge the product. Refer to *To charge the battery on page 25*.
- Disconnect the product with the **Main switch**. Refer to *To set the product to OFF on page 24*.
- Clean the product. Refer to *Clean the product on page 27*.
- 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.

8.3 Disposal

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



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

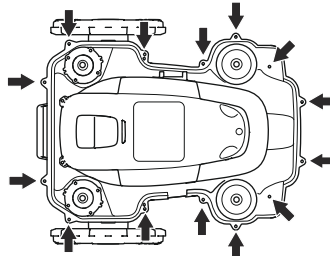
8.3.1 To remove the batteries



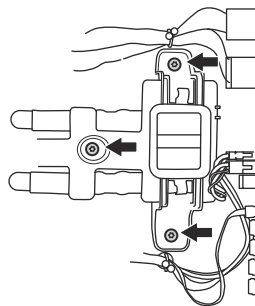
CAUTION: Only remove the batteries when you dispose of the product. When you

remove the warranty seal, the Husqvarna warranty is no longer applicable.

1. Disconnect the product with the **Main switch**. Refer to *To set the product to OFF on page 24*.
2. Pull out the grommet on the charging cable at the very front of the product, and carefully remove the connector.
3. Lift the cover, one corner at a time.
4. Remove the 14 screws with a Torx 20.



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



9. Disconnect the batteries connection from the main circuit board.

9 Technical data

9.1 Technical data

Dimensions	Automower® 520 EPOS®	Automower® 550 EPOS®
Length, cm / in.	72 / 28.3	72 / 28.3
Width, cm / in.	56 / 22.0	56 / 22.0
Height, cm / in.	32 / 12.6	32 / 12.6
Weight, kg / lbs	13.8 / 30.4	13.8 / 30.4

Electrical system	Automower® 520 EPOS®	Automower® 550 EPOS®
Battery, Lithium-Ion 18V, 5.0 Ah, Art. No	593 11 84-01, 593 11 85-01, 593 11 84-03, 593 11 84-04, 593 11 84-05, 593 11 84-06	593 11 84-01, 593 11 85-01, 593 11 84-03, 593 11 84-04, 593 11 84-05, 593 11 84-06 (2 pcs.) 5.0 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, kWh/month	14	23
Charging current, A DC	2.2	7
Type of Power Supply Unit for charging station ⁵	ADP-60PR XX, FW7438/28/D/XX/Y	FW7458/28/D/XX/Y, ADP-200MR XX
Average mowing time, min	75	210
Average charging time, min	85	60

Charging station wire antenna	Automower® 520 EPOS®	Automower® 550 EPOS®
Operating Frequency Band, Hz	100-80000	100-80000
Maximum magnetic field, dBuA/m	82	82
Maximum Radio-frequency power ⁶ , mW @60m	<25 mW @60m	<25 mW @60m

⁵ The "XX" specifies the country version, such as JP, and the "Y" specifies the product revision, such as V. XX, YY can be any alphanumeric characters or blank for marketing purpose only, no technical differences.

⁶ 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 ⁷	Automower® 520 EPOS®	Automower® 550 EPOS®
Sound level, perceived, dB (A)	62	66
Measured sound power noise level, dB (A)	62	66
Noise emissions uncertainties K_{WA} , dB (A)	1	2
Sound pressure noise level at the operator's ear, dB (A) ⁸	54	58

Mowing	Automower® 520 EPOS®	Automower® 550 EPOS®
Cutting system	5 pivoted cutting blades	5 pivoted cutting blades
Maximum cutting motor speed, rpm	2500	2500
Power consumption during cutting, W +/- 20 %	30	35
Cutting height, cm / in.	2-6 / 0.8-2.4	2-6 / 0.8-2.4
Cutting width, cm / in.	24 / 9.4	24 / 9.4
Narrowest possible passage, m / ft.	2 / 6.5	2 / 6.5
Maximum slope for cutting area, %	45	45
Maximum slope for virtual boundary, %	15	15
Area capacity - Standard 48 (irregular pattern), m ² / acre(s)	2500 / 0.62	5000 / 1.25
Area capacity - Sports 24 (systematic pattern), m ² / acre(s)	2500 / 0.62	5000 / 1.25
Area capacity - Standard 48 (systematic pattern), m ² / acre(s)	5000 / 1.25	10000 / 2.5
Area capacity - Max 72 (systematic pattern), m ² / acre(s)	7500 / 1.85	15000 / 3.7
Area per hour, no charging, m ² / ft ²	175 / 1900	300 / 3200

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

⁷ Determined according to Directive 2006/42/EC and standard EN 50636-2-107. Except Sound level, perceived that is measured according to ISO 11094:1991.

⁸ Sound pressure noise uncertainties K_{pA} , 2-4 dB (A).

Frequency Band Support	
Bluetooth® Frequency range	2400.0-2483.5 MHz
Cellular connectivity 2G	GSM 850 MHz, E-GSM 900 MHz, DCS 1800 MHz, PCS 1900 MHz
Cellular connectivity 4G	Band 1 (2100 MHz), Band 2 (1900 MHz), Band 3 (1800 MHz), Band 4 (1700 MHz), Band 5 (850 MHz), Band 8 (900 MHz), Band 12 (700 MHz), Band 13 (700 MHz), Band 18 (850 MHz), Band 19 (850 MHz), Band 20 (800 MHz), Band 25 (1900 MHz), Band 26 (850 MHz), Band 27 (850MHz), Band 28 (700 MHz), Band 66 (1700 MHz), Band 71 (600 mHz), Band 85 (700 MHz)
SRD868 (Europe)	863-870 MHz
SRD915 (North America)	902-928 MHz
SRD915 (Australia)	915-928 MHz
SRD915 (New Zealand)	915-928 MHz

Power Class		
Bluetooth® Output power	8 dBm	
Cellular connectivity 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
Cellular connectivity 4G	Power Class 3	23 dBm
SRD868 (Europe)	13 dBm	
SRD915 (North America)	13 dBm	
SRD915 (Australia)	13 dBm	
SRD915 (New Zealand)	13 dBm	

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

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

The products are made in England or the Czech Republic. See information on the rating plate. Refer to *Product overview on page 9*.

9.2 Registered trademarks

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

10 Applicable to US/CA market

10.1 Supplier's Declaration of Conformity

Responsible party: Husqvarna Professional Product, Inc.
9335 Harris Corners Parkway Charlotte, NC 28269, Tel:
+1 704 597 5000, www.husqvarna.com/us/support/e-mail/.

10.2 Compliance requirements

FCC ID: MCQ-XBSX (Short range device 915 MHz).

FCC ID ZASHQ-BLE-1G (Bluetooth® module).

FCC ID: XMR202005BG95M5 (Cellular connectivity 2G/4G).

The Bluetooth® module is located on the HMI-board (PCBA) in the upper chassis. All circuit boards in the mower using radio are located in the upper chassis. They must only be accessed by an authorized service technician.

harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.



WARNING: To comply with RF exposure requirements, please maintain a separation distance of at least 20 cm/7 inches from any part of the product.

Note: Changes or modifications made to this equipment not expressly approved by Husqvarna may void the FCC or ISED authorization to operate this equipment.

Note: This device complies with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS standard(s). Operation is subject to the following two conditions: this device may not cause harmful interference, and this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause



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Original instructions



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