Read the operator's manual carefully and make sure that you understand the instructions before you use the product.
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2 1404 - 002 -
1 Introduction

The serial number is on the product rating plate and on the product carton.
- Use the serial number to register your product on www.husqvarna.com.

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

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

The product is a robotic lawn mower. The product has a battery power source and cuts the grass automatically. It continuously alternates between mowing and charging. The movement pattern is random, which means that the lawn is mowed evenly and with less wear. The boundary wire and the guide wire controls the movement of the product within the work area. Sensors in the product senses when it is approaching the boundary wire. The front of the product always passes the boundary wire by a specific distance before the product turns around. When the product hits an obstacle or approaches the boundary wire the product selects a new direction.

The operator selects the operation settings in Automower® Access on the product. The display shows the selected and possible operation settings, and the operation mode of the product.

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

1.2.2 Find the charging station
The product operates until the battery is low, then it starts to go to the charging station. The product has 3 search methods to find the charging station. Refer to To find the charging station on page 32.

1.3 Automower® Access
The user interface of the product is called Automower® Access. It consists of the display, the jog wheel, the LED status indicator, the START button and the STOP button. Refer to Automower® Access on page 6.

1.4 Automower® Connect
Automower® Connect is a mobile application that makes it possible to select the operation settings remotely. Refer to Automower® Connect on page 29.
1.5 Product overview

1. Ultrasonic sensors
2. Front top cover
3. Lifting handle
4. Rear top cover
5. Charging plates
6. Headlights
7. Front wheels
8. Rear wheels
9. Automower® Access
10. Display
11. Jog wheel
12. LED status indicator
13. STOP button
14. START button
15. Battery cover
16. Rear chassis box with electronics, motors and battery
17. Skid plate
18. Rating plate (incl. product identification code)
19. Front chassis box with electronics and motors
20. Blades
21. Blade disc
22. Contact plates
23. LED for operation check of the charging station and boundary wire
24. Charging station
25. Power supply¹
26. Low voltage cable
27. Loop wire for boundary loop and guide wire²
28. Couplers for loop wire³
29. Stakes⁴
30. Connector for the loop wire⁵
31. Screws for securing the charging station
32. Measurement gauge for help when installing the boundary wire (the measurement gauge is broken loose from the box)
33. Operator’s Manual and Quick Guide
34. Cable markers
35. Extra blades
36. Alarm decal

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

WARNING: Read the user instructions before operating the product.

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

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

WARNING: Do not ride on the product. Never put your hands or feet close to or under the product. Never use a high-pressure washer or even running water to clean the product.

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

This product conforms to the applicable EC Directives.

Noise emission to surroundings. The product’s emissions are set out in Technical data on page 62 and on the rating plate.

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

¹ The appearance may differ depending on market.
² Is a part of the Installation kit which is purchased separately.
³ Refer to note 2
⁴ Refer to note 2
⁵ Refer to note 2
The chassis contains components which are sensitive to electrostatic discharge (ESD). The chassis must also be resealed in a professional manner. For these reasons the chassis shall only be opened by authorized service technicians. A broken seal can result in the entire or parts of the warranty no longer being valid.

The low voltage cable must not be shortened, extended or spliced. Do not use a trimmer nearby the low voltage cable. Be careful when trimming edges where the cables are placed.

### 1.7 Symbols on the battery

- **Read the user instructions.**
- **Do not discard the battery into fire and do not expose the battery to a heat source.**
- **Do not immerse the battery into water.**

### 1.8 General manual instructions

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

- **Text written in italics** is a text that is shown in the display or is a reference to another section in the Operator’s Manual.
- **Text written in bold** is one of the buttons on the product.
- **Text written in UPPERCASE** and **italics** refer to the different operating modes available in the product.

### 1.9 Automower® Access

1. The display shows the status bar and the main menu symbols. Refer to *Display on page 7.*
2. Use the **jog wheel** to move through the menu structure and to select a menu option.
3. The LED status indicator shows the status of the product. Refer to *LED status indicator on page 14.*
4. **STOP button**
5. **START button**
1.9.1 Display

The display shows the status bar and the main menu symbols. If an error occurs, the display shows an error indication. Refer to *Error icons in the Automower® Access display on page 46.*

### A. Status bar

<table>
<thead>
<tr>
<th>Feature</th>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product activity</td>
<td>Play/Park</td>
<td>The current product activity status is shown as either mowing or parked.</td>
</tr>
<tr>
<td>Cutting height</td>
<td>Cut Height</td>
<td>The cutting height symbol shows the current cutting height.</td>
</tr>
<tr>
<td>Mobile network</td>
<td>Signal Bars</td>
<td>The mobile network symbol shows the current cellular signal strength.</td>
</tr>
<tr>
<td>Bluetooth® status</td>
<td>Bluetooth</td>
<td>When the Bluetooth® connection is active, the Bluetooth® symbol is visible in the status bar.</td>
</tr>
<tr>
<td>Battery level</td>
<td>Battery</td>
<td>The battery level symbol shows the current battery status.</td>
</tr>
</tbody>
</table>
### B. Main menu symbols

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>![on/off symbol]</td>
<td>When the on/off symbol is confirmed in the main menu, the product is switched off. For how to switch on the product, refer to <em>To switch on the product on page 37</em>.</td>
</tr>
<tr>
<td>![Park symbol]</td>
<td>In the Park menu it is possible to let the product park in the charging station. For different options, refer to <em>Menu structure overview in Automower® Access on page 9</em>.</td>
</tr>
<tr>
<td>![Main area symbol]</td>
<td>The Main area is the standard operating mode where the product mows and charges automatically. For different options, refer to <em>Menu structure overview in Automower® Access on page 9</em>.</td>
</tr>
<tr>
<td>![Secondary area symbol]</td>
<td>If you select the Secondary area mode, the product must be manually moved to and from an adjacent work area, refer to <em>To make a secondary area on page 24</em>. For different options, refer to <em>Menu structure overview in Automower® Access on page 9</em>.</td>
</tr>
<tr>
<td>![Settings symbol]</td>
<td>In the Settings menu it is possible to adjust the cutting height and to activate Bluetooth® pairing.</td>
</tr>
</tbody>
</table>

### 1.9.2 To operate Automower® Access

For information, refer to *Automower® Access on page 6*.

If it is the first time you start the product, refer to *To start the product for the first time on page 30*.

1. Push the jog wheel to start the display. If the product is switched off, refer to *To switch on the product on page 37*.

2. Turn the jog wheel clockwise to move to the right or down in the menus. Turn the jog wheel counterclockwise to move to the left or up in the menus.

3. Push the jog wheel to select a menu option.
1.9.3 Menu structure overview in Automower® Access
<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="symbol.png" alt="Schedule settings" /></td>
<td>Use the <em>Schedule</em> settings in the Automower® Connect app.</td>
</tr>
<tr>
<td><img src="symbol.png" alt="Bluetooth" /></td>
<td>Activate the Bluetooth® pairing mode.</td>
</tr>
<tr>
<td><img src="symbol.png" alt="Infinity" /></td>
<td>Operate in the selected mode until a new option is chosen.</td>
</tr>
<tr>
<td><img src="symbol.png" alt="Battery" /></td>
<td>Operate in the selected mode until the battery is empty.</td>
</tr>
<tr>
<td><img src="symbol.png" alt="Cutting height" /></td>
<td>Change the cutting height.</td>
</tr>
<tr>
<td><img src="symbol.png" alt="Pairing" /></td>
<td>Pairing between the product and mobile device is not successful.</td>
</tr>
<tr>
<td><img src="symbol.png" alt="Pairing" /></td>
<td>Pairing between the product and mobile device is successful.</td>
</tr>
</tbody>
</table>
1.9.6 Menu structure overview 3

- **General**
  - Time & date
    - Mower time (Edit)
  - Mower date (Edit)
  - Time & date from phone
  - Reset to factory settings

- **Security**
  - New loop signal
  - Change PIN code
  - Theft protection
  - GeoFence
    - Create new loop signal
      - Require PIN code
      - Alarm duration
      - STOP button pressed
      - Carried away

- **Automower® Connect**
  - Signal strength
  - Connected
  - Initiate new pairing
  - Remove mower from paired accounts
1.9.7 LED status indicator

<table>
<thead>
<tr>
<th>LED indication</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>In operation</td>
</tr>
<tr>
<td>Blue</td>
<td>Parked</td>
</tr>
<tr>
<td>Red</td>
<td>Error</td>
</tr>
<tr>
<td>Yellow</td>
<td>Paused/stopped</td>
</tr>
<tr>
<td>Flashing yellow</td>
<td>PIN code needed</td>
</tr>
<tr>
<td>Pulsating green/blue</td>
<td>Charging in progress</td>
</tr>
<tr>
<td>Flashing green/blue</td>
<td>Push the <strong>jog wheel</strong> to confirm start of operation</td>
</tr>
<tr>
<td>Flashing green, low-frequent</td>
<td>Inactive</td>
</tr>
<tr>
<td>White</td>
<td>Switching off</td>
</tr>
</tbody>
</table>
2.1 IMPORTANT. READ CAREFULLY BEFORE USE. KEEP FOR FUTURE REFERENCE

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

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities (that could affect a safe handling of the product), or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Local regulations may restrict the age of the operator. Cleaning and maintenance shall not be made by children without supervision.

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

Only charge the battery in the included charging station. Incorrect use may result in electric shock, overheating or leaking of corrosive liquid from the battery. In the event of leakage of electrolyte, flush with water/neutralizing agent. Seek medical help if it comes in contact with the eyes.

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

The appliance must be disconnected from the supply mains when removing the battery.
WARNING: The product can be dangerous if used incorrectly.

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

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

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

2.2 Safety definitions

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

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

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.

2.3 Safety instructions for operation

2.3.1 Use

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

WARNING!
Automatic lawn mower!
Keep away from the machine!
Supervise children!

I am a robotic lawnmower and I work here quietly to keep the lawn in perfect condition.
I work 24/7 independently of weather conditions and do it without releasing any exhaust emissions.
Stay a while and enjoy my work, but please let me work in peace.
• Use the park function or switch off the product when persons, especially children or pets, are in the work area. Refer to To switch off the product on page 38. It is recommended to program the product for use during hours when the area is free from activity, e.g. at night. Consider that certain species, e.g. hedgehogs, are active at night. They can potentially be harmed by the product. Refer to Schedule on page 31.
• Check that there are no foreign objects such as stones, branches, tools or toys on the lawn. If the blades hit foreign objects the blades can be damaged. Always switch off the product before clearing a blockage. Inspect the product for damage before starting the product again. Refer to To switch off the product on page 38.
• If the product starts to vibrate abnormally. Always switch off the product and inspect for damage before starting the product again. Refer To switch off the product on page 38.
• Switch on the product according to the instructions. When the product is switched on; make sure to keep your hands and feet away from the rotating blades. Never put your hands and feet under the product.
• Never touch moving hazardous parts, such as the blade disc, before it has come to a complete stop.
• Never lift up the product or carry it around when it is switched on.
• The product must never be allowed to collide with persons or other living creatures. If a person or other living creature comes in the way of the product, it shall be stopped immediately. Refer to To stop the product on page 38.
• Do not put anything on top of the product or its charging station.
• Do not allow the product to be used with a defective guard, blade disc or body. Neither should it be used with defective blades, screws, nuts or cables. Never connect a damaged cable, or touch a damaged cable before it is disconnected from the supply.
• Do not use the product if the STOP button does not work.
• Always switch off the product when it is not in use. The product can only start when the correct PIN code has been entered.
• The product must never be used at the same time as a sprinkler. Use the Schedule function so the product and sprinkler never run simultaneously. Refer to Schedule on page 31.
• Husqvarna does not guarantee full compatibility between the product and other types of wireless systems such as remote controls, radio transmitters, hearing loops, underground electric animal fencing or similar.
• The built-in alarm is very loud. Be careful, especially if the product is handled indoors.
• Metal objects in the ground (for example reinforced concrete or anti-mole nets) can result in a stoppage. The metal objects can cause interference with the loop signal which then can lead to a stoppage.
• Operation and storage temperature is 0-50 °C / 32-122 °F. Temperature range for charging is 0-45 °C / 32-113 °F. Too high temperatures might cause damage to the product.

2.3.2 Battery safety

WARNING: Lithium-ion batteries can explode or cause fire if disassembled, short-circuited, exposed to water, fire, or high temperatures. Handle carefully, do not dismantle, open the battery or use any type of electrical/mechanical abuse. Avoid storage in direct sunlight.

For more information about the battery, refer to Battery on page 44
2.3.3 How to lift and move the product

**WARNING:** The product must be switched off before you lift it. The product is switched off when the LED status indicator is not lit.

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

To safely move from or within the work area:

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

2. Enter the PIN code if required.

3. Push the **jog wheel** for 3 seconds to switch off the product.

4. Make sure that the LED status indicator is not lit.

5. Carry the product by the lifting handle as the illustration shows.

2.3.4 Maintenance

**WARNING:** The product must be switched off before it is turned upside down.

The product must be switched off before any maintenance is done.

**CAUTION:** Never use a high-pressure washer or even running water to clean the product. Never use solvents for cleaning.

**WARNING:** Use the plug to disconnect the charging station before any cleaning or maintenance of the charging station or the loop wire.

Inspect the product each week and replace any damaged or worn parts. Refer to *Maintenance on page 40.*
2.3.5 In the event of a thunderstorm

To reduce the risk of damage to electrical components in the product and the charging station, we recommend that all connections to the charging station are disconnected (power supply, boundary wire and guide wire) if there is a risk of a thunderstorm.

1. Mark the wires to simplify reconnecting. The charging station’s connections are marked AR, AL and G1, G2.
2. Disconnect all connected wires and the power supply.
3. Connect all the wires and the power supply if there is no longer a risk of thunder. It is important that each wire is connected to the right place.
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 Main components for installation

The installation involves the following components:

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

3.3 General preparations

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

Note: Read through the Installation chapter before beginning the installation. How the installation is done affects how the product performs. It is therefore important to plan the installation carefully.

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

3.4 Before the installation of the wires

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

- Bury the boundary wire or the guide wire if you are going to use a dethatcher on the work area. If not, attach the boundary wire or guide wire with stakes.

3.4.1 To examine where to put the charging station

- Keep a minimum 3 m / 10 ft. of free space in front of the charging station.
- Keep a minimum of 1.5 m / 5 ft. of free space to the right and to the left of the charging station.
- Put the charging station near a power outlet.
- Put the charging station on a level surface.
3.4.2 To examine where to put the power supply

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

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

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

- Put the charging station in the largest open section of the work area.
- Put the charging station in an area without an irrigation system.
- Put the charging station in an area with protection from the sun.
- If the charging station is installed on an island, make sure to connect the guide wire to the island. Refer to *To make an island on page 23.*

3.4.3 To examine where to put the boundary wire

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

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

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

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

The boundary wire should be put as a loop around the work area. Sensors in the product senses when the product approaches the boundary wire, and the product selects another direction.

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

Low-voltage cables of different lengths are available as accessories.
Note: Make a blueprint of the work area before you install the boundary wire and guide wire.

- Put the boundary wire around all of the work area (A). Adapt the distance between the boundary wire and obstacles.
- Put the boundary wire 35 cm / 14 in. (B) from an obstacle that is more than 5 cm / 2 in. high.
- Put the boundary wire 30 cm / 12 in. (C) from an obstacle that is 1-5 cm / 0.4-2 in. high.
- Put the boundary wire 10 cm / 4 in. (D) from an obstacle that is less than 1 cm / 0.4 in.
- If you have a paving stone path that is in level with the lawn, put the boundary wire below the paving stone.

Note: If the paving stone is minimum 30 cm / 12 in. wide, use the factory setting for the Drive Past Wire function to cut all the grass adjacent to the paving stone. Refer to Drive Past Wire on page 34.

- If you make an island, put the boundary wire that runs to and from the island near together (E). Put the wires in the same stake. Refer to To make an island on page 23.
• Make an eyelet (F) where the guide wire is to be connected to the boundary wire.

3.4.3.1 To put the boundary wire in a slope
The product can operate in 70% slopes. Slopes that are too steep must be isolated with the boundary wire. The gradient (%) is calculated as height per m. Example: 10 cm / 100 cm = 10%.

![Diagram showing gradient calculation](image)

• For slopes up to 50% steep inside the work area, the product will operate normally. Keep a distance of 1.5 m / 5 ft between the boundary wire and obstacles, or between obstacles.

• For slopes between 50-70% steep, make sure that there are no obstacles in the slope. There must be a distance of 1.5 m / 5 ft from the bottom of the slope to the boundary wire.

![Diagram showing distance requirements](image)

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

3.4.3.2 Passages
A passage is a section that has boundary wire on each side and that connects 2 work areas. The passage must be a minimum of 2 m / 6.5 ft wide to get a good cutting result. Short passages can be as narrow as 60 cm / 2 ft., if a guide wire is installed through the passage. A long narrow passage can have a negative impact of the cutting result.

![Diagram showing passage requirements](image)

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

A dead end must be a minimum of 2.5 m / 8.5 ft. wide.

![Diagram showing dead end requirements](image)

Note: Make sure that the guide wire has as much free area as possible to the left of the guide wire when facing the charging station. Minimum distance between the guide wire and boundary wire is 30 cm / 12 in.

3.4.3.3 To make an island

CAUTION: Do not put a section of boundary wire across the other. The sections of boundary wire must be parallel.
**CAUTION:** Do not put the guide wire across the boundary wire, for example a boundary wire that goes to an island.

Some obstacles can withstand a collision, for example, trees or bushes taller than 15 cm / 6 in. The product will collide and then turn around with this type of obstacle. However, obstacles that slope slightly, for example stones or large trees with raised roots, must be isolated or removed. The product can run onto this kind of obstacle causing the blades to be damaged. Use the boundary wire to isolate areas inside the work area by creating islands. When the boundary wires to and from the island are put close together, the product can run over the wire.

**Note:** To achieve careful and silent operation, it is recommended to isolate all fixed objects in the work area.

- Put the boundary wire to and around the obstacle to make an island.
- Put the 2 sections of boundary wire that run to and from the obstacle close together without crossing.
- Put the 2 sections of boundary wire in the same stake.
- Make sure that there is a minimum of 1.5 m / 5 ft of empty space before an obstacle.

**3.4.3.4 To make a secondary area**

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

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

- Put the boundary wire around the secondary area (B) to make an island. Refer to To make an island on page 23.

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

**Note:** When the product cuts grass in the secondary area, the Secondary area mode must be selected. Refer to Secondary area (2nd area) on page 37.
3.4.4 To examine where to put the guide wire

Put the guide wire from the charging station through the work area and connect it to the boundary wire. This product has 2 guide wires. Use the same approach for all guide wires.

- Put the guide wire in a line at a minimum of 2 m / 7 ft. in front of the charging station.
- Make sure that the guide wire has as much free area as possible to the left of the guide wire when facing the charging station.
- Put the guide wire minimum 30 cm / 12 in. from the boundary wire.
- Do not make sharp bends when you install the guide wire.
- If the work area has a slope, put the guide wire in a straight line from the bottom of the slope to the top of the slope. If it is not possible to make a straight line, put the guide wire diagonally across the slope.

**CAUTION:** Do not put the guide wire in parallel with the slope, as the illustration shows. This can increase the wear on the grass.

3.4.5 Work area examples

- If the charging station is put in a small area (A), make sure that the distance to the boundary wire is at a minimum 3 m / 10 ft. in front of the charging station.
- If the work area has a passage (B), make sure that the distance to the boundary wire is at a minimum 2 m / 6.5 ft. If the passage is smaller than 2 m / 6.5 ft., install a guide wire through the passage. Minimum passage between the boundary wire is 60 cm / 24 in.
- If the work area has areas which are connected by a narrow passage (B), you can set the product to first follow and then leave the guide wire after a certain distance (C). The settings can be changed in *Lawn coverage on page 33.*
- If the work area includes a secondary area (D), refer to *To make a secondary area on page 24.* Put the product in the secondary area and select *Secondary area mode.*

3.5 Installation of the product

3.5.1 Installation tools

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

3.5.2 To install the charging station

**WARNING:** Obey national regulations about electrical safety.

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

**WARNING:** Do not put the power supply at a height where there is a risk it can be put in water. Do not put the power supply on the ground.

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

**WARNING:** Risk of Electric Shock. Install only to an earth fault breaker (RCD) when connecting the power supply to the wall socket. Applicable to USA/Canada. If power supply is installed outdoors: Risk of Electric Shock. Install only to a covered Class A GFCI receptacle (RCD) that has an enclosure that is weatherproof with the attachment plug cap inserted or removed.

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

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

---

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

When connecting the power supply, only use a wall socket that is connected to an earth fault-breaker (RCD).

1. Read and understand the instructions about the charging station. Refer to To examine where to put the charging station on page 20.
2. Put the charging station in the selected area.

**Note:** Do not attach the screws for the charging station to the ground until the guide wire is installed. Refer to To install the guide wire on page 27.

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

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

**Note:** When the charging station is connected, it is possible to charge the product. Place the product in the charging station while the boundary and guide wires are being laid. Switch on the product. Refer to To switch on the product on page 37. Do not continue with any product settings before the installation is complete.

6. Put the low-voltage cable in the ground with stakes or bury the cable. Refer to To put the wire into position with stakes on page 28 or To bury the boundary wire or the guide wire on page 28.

7. Connect the wires to the charging station after the installation of boundary wire and
guide wire is complete. Refer to To install the boundary wire on page 27 and To install the guide wire on page 27.

8. Attach the charging station to the ground with the supplied screws after the guide wire is installed. Refer to To install the guide wire on page 27.

3.5.3 To install the boundary wire

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

1. Put the boundary wire around all of the work area. Start and complete the installation behind the charging station.
2. Open the connector and put the boundary wire in the connector.
3. Close the connector with a pair of pliers.
4. Cut the boundary wire 1-2 cm / 0.4-0.8 in. above each connector.
5. Put the right end of boundary wire into the channel with the mark "AR".
6. Put the left end of boundary wire into the channel with the mark "AL".
7. Push the right connector onto the metal pin on the charging station with the mark "AR".
8. Push the left connector onto the metal pin on the charging station with the mark "AL".
9. Put the cable mark on the left and right boundary wire. Do not walk on the charging station.

3.5.4 To install the guide wire

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

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

a) Put the 2 ends of the boundary wire and the end of the guide wires into the coupler.
11. Attach the guide wires to the ground with stakes or bury the guide wires in the ground. Refer to To put the wire into position with stakes on page 28 or To bury the boundary wire or the guide wire on page 28.

12. Connect the charging station to the power outlet.

3.6 To put the wire into position with stakes

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

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

1. Put the boundary wire and the guide wire on the ground.
2. Put the stakes at a maximum of 75 cm / 30 in. distance from each other.
3. Attach the stakes to the ground with a hammer or a plastic mallet.

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

3.7 To bury the boundary wire or the guide wire

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

3.8 To extend the boundary wire or the guide wire

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

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

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

6. Push the button on the coupler with an adjustable pliers.

7. Put the boundary wire or the guide wire into position with stakes.
8. Connect the charging station to the power outlet.
3.9 After the installation of the product
3.9.1 To do a visual check of the charging station
1. Make sure that the indicator LED lamp on the charging station has a green light.
2. If the indicator LED lamp does not have a green light, do a check of the installation. Refer to Indicator lamp in the charging station on page 55 and To install the charging station on page 26.

3.10 Automower® Connect
The product has Automower® Connect included from factory.

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

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

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

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

3.10.1 To install the Automower® Connect app
1. Download the Automower® Connect app on your mobile device.
2. Sign up for a Husqvarna account in the Automower® Connect app.
3. Log in to your Husqvarna account in the Automower® Connect app.

3.10.2 To pair Automower® Connect and the product
1. Do step 1-6 in To start the product for the first time on page 30.
2. Obey the instructions in the Automower® Connect app.

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

To pair a new product to the Automower® Connect app:
1. Select the plus sign (+).
2. Select model.
3. Obey the instructions in the Automower® Connect app to finish the pairing.

3.10.4 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.

3.10.4.1 To set the Firmware over the air (FOTA)
1. Select My Mowers.
2. Select Mower information for the current mower.
3. Select on/off to enable or disable the function.

3.10.5 Automower® Direct
Automower® Direct uses short-range Bluetooth® communication, and is included in Automower® 435X AWD.

Husqvarna cannot guarantee the time period or coverage of the long-range cellular connectivity. It is possible to communicate with the product through Bluetooth® if you are in short-range of the product. You can use Automower® Direct without a Husqvarna account as long as you have the product PIN code.
3.10.5.1 To start to use Automower® Direct
1. Download the Automower® Connect app on your mobile device.
2. Select Automower® Direct on the start screen of the Automower® Connect app.
3. Start Bluetooth® on your mobile device and on the product, refer to To start the product for the first time on page 30.
4. Go to the Settings symbol in the display and activate Bluetooth®.
5. Select the product to pair with in the Automower® Connect app.
6. Enter the PIN code for the product.

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

3.10.6 User interface overview
The user interface overview below shows examples of Automower® Connect and the corresponding display in Automower® Access.

### Automower® Connect

![Automower® Connect Interface]

### Automower® Access

![Automower® Access Interface]

3.11 To start the product for the first time

When the product is switched on for the first time, there are some basic settings to do before the product can start to operate.

1. Push the jog wheel for 3 seconds to switch on the product.
Note: The Bluetooth® pairing mode is on for 3 minutes. If the product does not pair with Bluetooth® in 3 minutes, switch off the product. Wait until the LED status indicator is not lit, and then switch on the product again.

2. Enter the factory PIN code.
3. Log on to your Husqvarna account in the Automower® Connect app to pair your product with Automower® Connect.

Note: It is recommended to pair your product with Automower® Connect to get access to all functions in the product. If it is not necessary to pair your product with Automower® Connect, push the arrow symbol to continue to the menu.

4. Start Bluetooth® on your mobile device.
5. Select My mowers in the Automower® Connect app, and then select the plus sign (+).
6. Select model. The Automower® Connect app searches for available products within short-range (Bluetooth®).
7. Select product.
8. Obey the instructions in the Automower® Connect app.

3.12 Settings in Automower® Connect

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

3.12.1 Schedule

In Schedule you can change the schedule settings for the product. To change the settings, obey the instructions in the Automower® Connect app.

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

The default schedule setting allows the product to operate around the clock 7 days a week. This is normally a suitable setting for a work area corresponding to the maximum capacity. If the work area is less than the maximum capacity the schedule should be used to minimize wear on the grass and to the product.

To calculate the schedule setting, refer to To calculate the schedule setting on page 31.

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

3.12.1.2 To add a new schedule setting
1. Select Settings > Schedule > Edit in the app.
2. Select the plus sign in the app.
3. Select which days of the week and hours the product must operate.
4. Select Save.

3.12.1.3 To calculate the schedule setting
1. Calculate the dimension of your lawn in m² / yd².
2. Divide the m² / yd² of the lawn with the approximate operation capacity. Refer to table below.
3. The result is equal to the number of hours that the product must operate each day.

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Approximate operation capacity, m² / yd² / h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automower® 435X AWD</td>
<td>146 / 175</td>
</tr>
</tbody>
</table>

Example: A lawn of 500 m² / 600 yd², cut with an Automower® 435X AWD.
500 m² / 146 ≈ 3.5 h.
600 yd² / 175 ≈ 3.5 h.
### 3.12.2 Operation

In **Operation** you can change the operation settings of the product. To change the settings, obey the instructions in the Automower® Connect app.

#### 3.12.2.1 Weather timer

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

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

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

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

#### To set the Weather timer

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

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

3. Select **Save**.

### 3.12.2.2 ECO mode

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

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

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

#### To set the ECO mode

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

### 3.12.3 Installation

In **Installation** you can change the installation settings of the product. To change the settings, obey the instructions in the Automower® Connect app.

#### 3.12.3.1 To find the charging station

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

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

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

Causes why the product cannot follow the wire:

- Obstacles near the wire have not been isolated.
- The charging station, the boundary wire or the guide wire are not installed according to
the instructions in *To examine where to put the charging station on page 20*, *To examine where to put the boundary wire on page 21* and in *To examine where to put the guide wire on page 25*.

**To change the signal range of the charging station**

For some installations it is necessary to decrease the signal of the charging station. For example when the charging station is put near an obstacle such as a bush or wall and the signal reaches to the other side of the obstacle. The product knows that it is close to the charging station and tries to dock, but the objects prevents it. The options are *min*, *avg* (average) or *max*.

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

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

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

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

**3.12.3.2 Lawn coverage**

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

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

**To set the GPS function**

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

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

3. Select *Save*.

**To set the Lawn Coverage function**

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

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

1. Select *Settings > Installation > Lawn coverage* in the app.
2. Select *on/off* to disable the GPS function to set the Lawn Coverage.
3. Select *on/off Area 1-5* to activate the area.
4. Move the horizontal bar to set which wire the product will follow. The product can follow *Boundary wire left*, *Boundary wire right* or one of the guide wires.
5. Move the horizontal bar to set the distance the product must follow the wire. The product then leaves the wire and starts to cut the lawn. Refer to *To measure the distance from the charging station on page 34*.
6. Move the horizontal bar to set how often the product goes to each area. At all other times, the products starts to cut near the charging station. The percentage is equal to the percentage of the area in relation to the complete work area.
   a) Measure the area.
   b) Divide the area with the complete work area.
   c) Convert the result to %.
   d) Move the horizontal bar to set the distance from the charging station.
3. Select *Save*.

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

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

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

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

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

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

3.12.3.4 Starting point
The Starting point function allows you to control how far the product drives forward from the charging station before it starts to operate. Use this function if the charging station is placed in an area with limited space, for example under a veranda.

Note: Starting point must not be set to a distance longer than the distance the guide wire is installed in a line in front of the charging station. Refer to To examine where to put the guide wire on page 25.

To set the starting point
1. Select Settings > Installation > Starting point in the app.
2. Move the horizontal bar to set the distance.
3. Select Save.

3.12.4 Accessories
In Accessories you can change the settings of the product accessories. To change the settings, obey the instructions in the Automower® Connect app.

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

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

The default setting is Always ON.

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

To set the headlight to flash when fault
The factory setting is that Flashes when fault is enabled. The headlights flashes if the product stops to operate because of a fault.

1. Select Settings > Accessories in the app.
2. Select on/off to enable or disable the function.
3. Select Save.
3.12.4.2 To avoid collisions with the mower house
When this option is enabled, the wear on the product and the house is reduced, but it can result in more uncut grass around the charging station.

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

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

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

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

3.12.5.2 Reset to factory settings
The user settings can be reset to factory settings.

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

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

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

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

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

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

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

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

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

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

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

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

**3.12.6.4 GeoFence**
GeoFence is a GPS-based theft protection that makes a virtual fence for the product. If the product is more than 500 m / 1650 ft away from the center position the product will be deactivated and an alarm will start. The PIN code is needed to deactivate the alarm and to start the product again.

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

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

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

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

If the same message is repeated several times, this may indicate that an adjustment to the installation or the product is required. Refer to *Installation on page 20.*
4 Operation

4.1 To switch on the product

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

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

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

1. Push the jog wheel for 3 seconds to switch on the product.

   Note: Make sure that the STOP button is pushed down. If the STOP button is not pushed down a STOP symbol will show on the display.

2. Use the jog wheel to enter the PIN code. The correct PIN code must be entered to get access to the menu. If the incorrect PIN code is entered 5 times, the product is locked for a time. The lock is extended for each new incorrect try.

3. Select the desired operating mode and push the jog wheel. Refer to Operating modes on page 37.

4. Push the START button to start the product.

If the product is parked in the charging station, it will only leave the charging station when the battery is fully charged and if the Schedule is set to let the product operate.

4.2 Operating modes

In the Automower® Access menu the following operation modes can be selected:

- Main area
- Secondary area
- Park

4.2.1 Main area

Main area is the standard operating mode where the product mows and charges automatically.

4.2.2 Secondary area (2nd area)

To mow secondary areas the operating mode Secondary area (2nd area) must be selected. In this mode, the operator must move the product manually between the main area and the secondary area. The product mows for a selected period of time or until the battery is empty.

4.2.3 Park

When the Park mode is selected the following operation selections can be chosen:

- Park until further notice
- Park for a specific number of hours

Refer to Menu structure overview in Automower® Access on page 9.
4.2.3.1 Park until further notice
The product goes to the charging station where it stays until you select a different operating mode.

4.2.3.2 Park for a selected number of hours
The product goes to the charging station where it stays for a selected number of hours, then it automatically goes to the usual operation that is set in the Schedule settings. This operation selection is applicable when it is necessary to pause operation, for example for temporary irrigation or work on the lawn.

4.3 To stop the product
1. Push the STOP button on top of the product.

The product stops and the blade motor stops.

4.4 To switch off the product
1. Push the STOP button to stop the product.

2. Enter the PIN code if required.

3. Push the jog wheel for 3 seconds to switch off the product.

4. Make sure that the LED status indicator is not lit.

Note: If the LED status indicator is lit or is flashing in any color the product is not switched off. Refer to LED status indicator on page 14.

Note: The product cannot be switched off when it stands in the charging station.

WARNING: The product must be switched off before any maintenance is done, or if the product must be moved from the work area.

4.5 To charge the battery
When the product is new or has been in storage for a long period, the battery can be empty, charge the battery before you start the product. In the Main area mode, the product automatically changes between mowing and charging.

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

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

1. Put the product in the charging station.

2. Put the product in as far as possible and make sure it is connected to the charging station.

The battery status can be monitored on the status bar of the display.

Note: If the battery is empty the product needs to charge for a longer time period before the product is possible to start.
4.6 To adjust the cutting height with Automower® Access

The cutting height can be varied from MIN (3 cm / 1.2 in.) to MAX (7 cm / 2.8 in.).

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

1. Push the STOP button to stop the product.

2. Use the jog wheel to select **Settings**.

3. Use the jog wheel to select the cutting height symbol.

4. Turn the jog wheel to change the cutting height.

5. Push the jog wheel to select the cutting height.
5 Maintenance

5.1 Introduction - maintenance

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

**WARNING:** Wear protective gloves.

For better operation and longer service life, make sure to clean the product regularly and replace worn parts. All maintenance and servicing must be done according to Husqvarna’s instructions. Refer to Warranty on page 65.

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

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

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

The normal life is 3 to 6 weeks when used under favorable conditions. Refer to Replace the blades on page 41 on how to replace the blades.

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

5.2 Clean the product

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

The product does not operate satisfactorily in slopes if the wheels are blocked with grass. Use a soft brush to clean the product.

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

5.2.1 To clean the blade disc

Examine the blade disc and blades weekly.

1. Switch off the product. Refer to To switch off the product on page 38.

2. Turn the product upside down or put it on its side. Put the product on a soft and clean surface to prevent scratching the product body.

3. Clean the blade disc with a brush.
4. Make sure that the blade disc can rotate freely.
5. Make sure that the blades are not damaged and can pivot freely.

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

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

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

5.2.5 Charging station

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

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

5.3 Replace the blades

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

Replace worn or damaged parts for safety reasons. Even if the blades are intact, they should be replaced on a regular basis for the best mowing result and low energy usage. All 3 blades and screws must be replaced at the same time to obtain a balanced cutting system. Use Husqvarna original blades embossed with the crowned H-mark logotype, refer to Warranty terms on page 65.

5.3.1 To replace the blades
1. Switch off the product. Refer to To switch off the product on page 38.
2. Put on protective gloves.
3. Turn the product upside down. Place the product on a soft and clean surface to avoid scratching the body.
4. Rotate the skid plate so that its holes align with the screws for the blade.
5. Remove the 3 screws. Use a manual straight slot or cross-tip screwdriver.

6. Remove each blade and screw.
7. Fasten new blades and screws.
8. Check that the blades can pivot freely.

5.4 To replace the top covers
The top cover is an accessory available in different colors. Speak to your local Husqvarna representative for more information.

CAUTION: Clean grass and dirt from the product before you remove the covers.

5.4.1 To remove the front top cover
1. Push the STOP button to stop the product.

2. Remove the front top cover from the snap-on clips on the product.

3. Lift the front top cover.

5.4.2 To install the front top cover
1. Put the front top cover on the snap-on clips.
2. Push the front top cover into position.

5.4.3 To remove the rear top cover

1. Push the STOP button to stop the product.

2. Turn the rear body to the left or right side.

3. Put a protection between the rear top cover and the link arm. This is to prevent damage to the rear top cover.

4. Pull the rear top cover.

5. Remove the rear top cover.
5.4.4 To install the rear top cover

1. Put the top cover on the rear body.

2. Put the top cover in position (A) and push the 2 magnets to assemble the top cover (B).

5.5 Battery

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

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

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

The charging time can vary depending on, among other factors, the ambient temperature.

Below indicates that the battery is getting old and eventually needs replacing:

- The operating time for the product is shorter than normal between charges. This leads to
more charging cycles than normal, which increases the risk of tracks forming near the charging station.

- The product is frequently found standing out on the lawn with *Empty battery* message. This indicates that the product does not have battery capacity enough to find the charging station.

The battery is fine as long as the product maintains a well-cut lawn.

**Note:** Battery life is dependent on the length of the season and how many hours a day the product is operating. A long season or many hours of use a day means that the battery must be replaced more regularly.

Contact your local Husqvarna representative to replace the battery.

### 5.6 Winter service

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

Service usually includes the following:

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

6.1 Introduction - troubleshooting
In this chapter, a number of messages are listed which may be shown in Automower® Connect and Automower® Access if there is a malfunction. There is a proposal action to the cause and steps to take for each message. This chapter also presents some symptoms that can guide you if the product does not work as expected. More suggestions for steps to take in the event of malfunction or symptoms can be found on www.husqvarna.com.

6.2 Error icons in the Automower® Access display
If an error icon is shown in the Automower® Access display, push the STOP button to confirm the error and return to the main menu. More information about the error can be found in Automower® Connect.

<table>
<thead>
<tr>
<th>Error icon</th>
<th>Description</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Error icon 1" /></td>
<td>The product has stopped because of an unexpected situation.</td>
<td>Examine if the cause of the problem is obvious. For example, if the product is not in the work area or if the product is in top of an object (stone, branch, etc). Restart the operation of the product.</td>
</tr>
<tr>
<td><img src="image2" alt="Error icon 2" /></td>
<td>The product has stopped because of an unexpected behavior from the wheel motors.</td>
<td>Examine the drive wheels and remove grass or other objects. Restart the operation of the product. Contact your local Husqvarna representative if the problem is frequent.</td>
</tr>
<tr>
<td><img src="image3" alt="Error icon 3" /></td>
<td>The product has stopped because the loop signal is missing.</td>
<td>Refer to the error message &quot;No loop signal&quot; in Fault messages on page 47.</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Error icon</th>
<th>Description</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Battery icon" /></td>
<td>The product has stopped because of low battery.</td>
<td>Refer to the error message &quot;Empty Battery&quot; in <em>Fault messages on page 47.</em></td>
</tr>
<tr>
<td><img src="image" alt="Blockage icon" /></td>
<td>The product has stopped because of a blockage to the cutting system.</td>
<td>Examine the blade disc and its adjacent area. Remove grass or other objects that can cause blockage to the cutting system.</td>
</tr>
<tr>
<td><img src="image" alt="Wrench icon" /></td>
<td>The product has stopped because of a temporary electronic or firmware problem.</td>
<td>Switch off/on the product. If the problem continues, contact your local Husqvarna representative.</td>
</tr>
<tr>
<td><img src="image" alt="Warning icon" /></td>
<td>The product has stopped because of an activated alarm.</td>
<td>Restart the product. The settings for the alarm are in the security menu in Automower® Connect app.</td>
</tr>
<tr>
<td><img src="image" alt="Lock icon" /></td>
<td>The product has stopped because of the wrong PIN code.</td>
<td>Enter the correct PIN code. If the PIN code is forgotten, use the link in the app to send to PIN code to your registered e-mail adress. If you have not registered the e-mail adress contact your local Husqvarna representative.</td>
</tr>
</tbody>
</table>

### 6.3 Fault messages

The table below shows a number of fault messages that may be shown in Automower® Connect. Some of the errors can be confirmed in the Automower® Connect and some the message needs to be
confirmed in Automower® Access display on the product. Contact your local Husqvarna representative if the same message appears often. For more information, refer to Messages on page 36.

<table>
<thead>
<tr>
<th>Message</th>
<th>Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>No loop signal</em></td>
<td>The power supply or the voltage cable are not connected.</td>
<td>Examine the LED status on the charging station. If the LED is not lit, it indicates that there is no power. Examine the wall socket connection and whether an earth-fault breaker has tripped. Make sure that the low voltage cable is connected to the charging station.</td>
</tr>
<tr>
<td></td>
<td>The power supply or low voltage cable are damaged.</td>
<td>Replace the power supply or low voltage cable.</td>
</tr>
<tr>
<td></td>
<td>The boundary wire is not connected to the charging station.</td>
<td>Make sure that the boundary wire connectors are fitted properly to the charging station. Replace connectors if damaged. Refer to To install the boundary wire on page 27.</td>
</tr>
<tr>
<td></td>
<td>The boundary wire is broken.</td>
<td>Check the signal given by the LED on the charging station. If the LED indicates break in the boundary wire, find out where the break is. Replace the damaged section of the loop with a new loop wire and splice using an original coupler. Refer to Find breaks in the loop wire on page 57.</td>
</tr>
<tr>
<td><em>ECO mode</em> is activated and the product has attempted to start outside the charging station.</td>
<td></td>
<td>Put the product in the charging station. Start the product and close the hatch.</td>
</tr>
<tr>
<td></td>
<td>The pairing between the product and the charging station is lost.</td>
<td>Put the product in the charging station and generate a new loop signal. Refer to To create a New loop signal on page 35.</td>
</tr>
<tr>
<td></td>
<td>The boundary wire is crossed on its way to and from an island.</td>
<td>Make sure that the boundary wire is installed correctly. Refer to To install the boundary wire on page 27.</td>
</tr>
<tr>
<td></td>
<td>Disturbances from metal objects (fences, reinforcement steel) or buried cables.</td>
<td>Move the boundary wire and/or make more islands in the work area to increase the signal strength.</td>
</tr>
<tr>
<td><em>Wheel motor blocked</em></td>
<td>Grass or other object has wrapped around the drive wheel.</td>
<td>Examine the drive wheel and remove the grass or other object.</td>
</tr>
<tr>
<td><em>Wheel drive problem</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message</td>
<td>Cause</td>
<td>Action</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-----------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Cutting system blocked</td>
<td>Grass or other object has wrapped around the blade disc.</td>
<td>Examine the blade disc and remove the grass or other object.</td>
</tr>
<tr>
<td></td>
<td>The blade disc lies in a pool of water.</td>
<td>Move the product and prevent the collection of water in the work area.</td>
</tr>
<tr>
<td>Trapped</td>
<td>The product is stuck in a small area behind a number of obstacles.</td>
<td>Examine if there are any obstacles which make it hard for the product to move away from this location.</td>
</tr>
<tr>
<td>Wrong PIN code</td>
<td>Wrong PIN code has been entered. Five attempts are permitted, and the product is then blocked for a period of time.</td>
<td>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, contact your local Husqvarna representative.</td>
</tr>
<tr>
<td>Empty battery</td>
<td>The product cannot find the charging station.</td>
<td>Change the position of the guide wire. Refer to To install the guide wire on page 27.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check the installation settings about how to find the charging station. Refer to To find the charging station on page 32.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The battery is spent.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The charging station's antenna is defective.</td>
</tr>
<tr>
<td>No drive</td>
<td>The product is caught in something and has been slipping.</td>
<td>Free the product and rectify the reason for the lack of drive. If it is due to wet grass, wait until the lawn has dried before using the product.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The work area includes a steep slope.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The guide wire is not installed correctly in a slope.</td>
</tr>
<tr>
<td>Wheel motor overloaded</td>
<td>The product is caught in something.</td>
<td>Free the product and rectify the reason for the lack of drive. If it is due to wet grass, wait until the lawn has dried before using the product.</td>
</tr>
<tr>
<td>Message</td>
<td>Cause</td>
<td>Action</td>
</tr>
<tr>
<td>----------------------</td>
<td>-----------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Charging station</td>
<td>The contact between the charging strips and contact strips may be poor and the product has made a number of attempts to charge.</td>
<td>Put the product in the charging station and check that the charging strips and contact strips make good contact. Clean the contact and charging plates.</td>
</tr>
<tr>
<td>blocked</td>
<td>An object causes a blockage and the product cannot enter the charging station.</td>
<td>Remove the object.</td>
</tr>
<tr>
<td></td>
<td>The baseplate is tilted or bent.</td>
<td>Make sure that the baseplate is put on level ground.</td>
</tr>
<tr>
<td>Stuck in charging</td>
<td>The product slips on the baseplate.</td>
<td>Clean the baseplate.</td>
</tr>
<tr>
<td>station</td>
<td>There is an object in the way of the product preventing it from leaving the charging station.</td>
<td>Remove the object.</td>
</tr>
<tr>
<td>Upside down</td>
<td>The product is leaning too much or has turned over.</td>
<td>Turn the product the right way up.</td>
</tr>
<tr>
<td>Mower tilted</td>
<td>The product is tilted more than the maximum angle.</td>
<td>Move the product to a flat area.</td>
</tr>
<tr>
<td>Lifted</td>
<td>A blockage has activated the lift sensors and caused the product to stop.</td>
<td>Remove the product from the blockage. If the problem remains it requires action by authorized service technician.</td>
</tr>
<tr>
<td>Collision sensor</td>
<td>The product body can not move freely around its chassis.</td>
<td>Make sure that the product body can move freely around its chassis. If the problem remains, the message requires action by authorized service technician.</td>
</tr>
<tr>
<td>problem</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slope too steep</td>
<td>Mower stopped because the slope is too steep.</td>
<td>Change the installation of the boundary wire to exclude this steep part of the work area. Refer to To examine where to put the boundary wire on page 21.</td>
</tr>
<tr>
<td>Alarm! Mower</td>
<td>The alarm was activated because the product was switched OFF.</td>
<td>Adjust the security level in the Security menu, refer to Security (Bluetooth® only) on page 35.</td>
</tr>
<tr>
<td>switched off</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alarm! Mower stopped</td>
<td>The alarm was activated because the product was stopped.</td>
<td></td>
</tr>
<tr>
<td>Alarm! Mower was</td>
<td>The alarm was activated because the product was moved.</td>
<td></td>
</tr>
<tr>
<td>moved</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alarm! Outside ge-</td>
<td>The alarm was activated because the mower was outside its GeoFence.</td>
<td>Adjust the theft protection area (Geo-Fence) in the Automower Connect menu.</td>
</tr>
<tr>
<td>ofence</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Message</td>
<td>Cause</td>
<td>Action</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>--------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Electronic problem</td>
<td>Temporary electronic or firmware related issue.</td>
<td>Restart the product. If the problem remains, the message requires action by authorized service technician.</td>
</tr>
<tr>
<td>Loop sensor problem</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charging system problem</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tilt sensor problem</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temporary problem</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STOP button problem</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ultrasonic problem</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GPS navigation problem</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Angular sensor problem</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Switch cord problem</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Invalid sub-device combination</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Invalid system configuration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temporary battery problem</td>
<td>Temporary battery or firmware related issue.</td>
<td>Restart the product. If the problem remains, the message requires action by authorized service technician.</td>
</tr>
<tr>
<td>Battery problem</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Faulty mix of batteries</td>
<td>The battery type is incorrect.</td>
<td>Only use original batteries that are recommended by the manufacturer.</td>
</tr>
<tr>
<td>Charging system problem</td>
<td>Temporary battery or software related issue in the product.</td>
<td>Restart the product. If the problem remains, the message requires action by authorized service technician.</td>
</tr>
<tr>
<td></td>
<td>The battery type is incorrect.</td>
<td>Only use original batteries that are recommended by the manufacturer.</td>
</tr>
<tr>
<td>Charging current too high</td>
<td>Wrong or faulty power supply unit.</td>
<td>Restart the product. If the problem remains, the message requires action by authorized service technician.</td>
</tr>
<tr>
<td>Message</td>
<td>Cause</td>
<td>Action</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Connectivity problem</td>
<td>Problem with the Automower® Connect module.</td>
<td>Restart the product.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If the problem remains, the message requires action by authorized service technician.</td>
</tr>
<tr>
<td>Outside work area</td>
<td>The boundary wire connections to the charging station are crossed.</td>
<td>Make sure that the boundary wire is connected correctly. Refer to To examine where to put the boundary wire on page 21.</td>
</tr>
<tr>
<td></td>
<td>The boundary wire is too close to the edge of the work area.</td>
<td>Make sure that the boundary wire has been laid according to the instructions. Refer to To install the boundary wire on page 27.</td>
</tr>
<tr>
<td></td>
<td>The work area slopes too much by the boundary loop.</td>
<td>Move the boundary wire and/or make more islands in the work area to increase the signal strength.</td>
</tr>
<tr>
<td></td>
<td>The boundary wire is laid in the wrong direction around an island.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Disturbances from metal objects (fences, reinforcement steel) or buried cables close by.</td>
<td>Put the product in the charging station and generate a new loop signal. Refer to To create a New loop signal on page 35.</td>
</tr>
<tr>
<td>Limited cutting height</td>
<td>The cutting height adjustment cannot move.</td>
<td>Examine the cutting height adjustment and remove grass and other unwanted material. If the problem remains, the message requires action by authorized service technician.</td>
</tr>
<tr>
<td>Unexpected cutting height</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cutting height problem, drive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cutting height blocked</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cutting height problem</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No power in charging station</td>
<td>Wrong or faulty power supply unit.</td>
<td>Examine the power supply. If it is necessary, replace the power supply.</td>
</tr>
<tr>
<td></td>
<td>Power failure.</td>
<td>Find and rectify the cause of the power failure.</td>
</tr>
<tr>
<td></td>
<td>No contact between the contact plates and the charging plates.</td>
<td>Make sure that the charging plates and the contact plates are connected.</td>
</tr>
<tr>
<td>Cutting system imbalance</td>
<td>Too few or too many blades.</td>
<td>Examine the blades on the blade disc.</td>
</tr>
<tr>
<td>Message</td>
<td>Cause</td>
<td>Action</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-----------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Weak GPS signal</td>
<td>The sky is obstructed in large parts of the work area.</td>
<td>If possible, remove obstructing objects. Disable the GPS navigation function and use the lawn coverage function instead. Refer to <em>Lawn coverage on page 33</em>.</td>
</tr>
<tr>
<td>Collision sensor problem, front/rear</td>
<td>A blockage has caused the product to stop.</td>
<td>Remove the product from the blockage and examine the cause of the stop.</td>
</tr>
<tr>
<td></td>
<td>The body of the product cannot move freely around the chassis.</td>
<td>Remove dirt and unwanted material between the chassis and the body to make sure that the body of the product can move freely around the chassis.</td>
</tr>
<tr>
<td></td>
<td>The body of the product is not installed correctly in the rubber dampers.</td>
<td>Make sure that the rubber dampers are attached correctly in the body of the product and in the chassis.</td>
</tr>
</tbody>
</table>
# 6.4 Information messages

The table below shows a number of information messages that may be shown in Automower® Connect. Contact your local Husqvarna representative if the same message appears often. For more information, refer to *Messages on page 36.*

<table>
<thead>
<tr>
<th>Message</th>
<th>Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low battery</td>
<td>The product cannot find the charging station.</td>
<td>Change the position of the guide wire. Refer to <em>To install the guide wire on page 27.</em> Make sure that the charging station is installed correctly. Refer to <em>To find the charging station on page 32.</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td>The battery is spent. Replace the battery. Refer to <em>Battery on page 44.</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td>The charging station’s antenna is defective. Check if the indicator lamp in the charging station flashes red. Refer to <em>Indicator lamp in the charging station on page 55.</em> This problem requires action by authorized service technician.</td>
</tr>
<tr>
<td>Settings restored</td>
<td>Confirmation that <em>Reset all user settings</em> has been carried out.</td>
<td>This is normal. No action required.</td>
</tr>
<tr>
<td>Guide 1/2 not found</td>
<td>The guide wire is not connected to the charging station.</td>
<td>Check that the guide wire’s connector is tightly connected to the charging station. Refer to <em>To install the guide wire on page 27.</em></td>
</tr>
<tr>
<td></td>
<td>Break in the guide wire.</td>
<td>Find out where the break is. Replace the damaged section of the guide wire with a new loop wire and splice using an original coupler.</td>
</tr>
<tr>
<td></td>
<td>The guide wire is not connected to the boundary loop.</td>
<td>Check that the guide wire is connected correctly to the boundary loop. Refer to <em>To install the guide wire on page 27.</em></td>
</tr>
<tr>
<td>Connection changed</td>
<td>New loop signal successfully changed.</td>
<td>No action.</td>
</tr>
<tr>
<td>Connection NOT changed</td>
<td>Failed to change the loop signal.</td>
<td>Create a new loop signal, try several times. If the problem remains, the message requires action by authorized service technician. Refer to <em>To create a New loop signal on page 35.</em></td>
</tr>
<tr>
<td>Slope too steep</td>
<td>The product stopped mowing because the slope is too steep.</td>
<td>If this problem occurs frequently, change the installation of the boundary wire to exclude the steep part of the work area.</td>
</tr>
</tbody>
</table>
6.5 Indicator lamp in the charging station

For a fully functional installation, the indicator lamp in the charging station must emit a solid or flashing green light. If something else appears, follow the troubleshooting guide below.

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

<table>
<thead>
<tr>
<th>Light</th>
<th>Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green solid light</td>
<td>Good signals.</td>
<td>No action required.</td>
</tr>
<tr>
<td>Green flashing light</td>
<td>The signals are good and ECO mode is activated.</td>
<td>No action required.</td>
</tr>
<tr>
<td>Blue flashing light</td>
<td>The boundary loop is not connected to the charging station.</td>
<td>Check that the boundary wire connectors are fitted properly to the charging station.</td>
</tr>
<tr>
<td></td>
<td>Break in the boundary loop.</td>
<td>Find out where the break is. Replace the damaged section of the loop with a new loop wire, and splice using an original coupler.</td>
</tr>
<tr>
<td>Red flashing light</td>
<td>Interruption in the charging station’s antenna.</td>
<td>Contact your local Husqvarna representative.</td>
</tr>
<tr>
<td>Red solid light</td>
<td>Fault in the circuit board or incorrect power supply in the charging station. The fault should be rectified by an authorized service technician.</td>
<td>Contact your local Husqvarna representative.</td>
</tr>
</tbody>
</table>
### 6.6 Symptoms

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

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

<table>
<thead>
<tr>
<th>Symptoms</th>
<th>Cause</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>The product has difficulty docking.</td>
<td>The boundary wire is not laid in a long straight line that is far enough out from the charging station.</td>
<td>Check that the charging station has been installed according to the instructions. Refer to <em>To install the charging station on page 26</em></td>
</tr>
<tr>
<td></td>
<td>The charging station is on a slope.</td>
<td>Place the charging station on a surface that is entirely level. Refer to <em>To examine where to put the charging station on page 20.</em></td>
</tr>
<tr>
<td>The product runs at the wrong time.</td>
<td>The clock needs to be set.</td>
<td>Set the clock. Refer to <em>Time &amp; date on page 35.</em></td>
</tr>
<tr>
<td></td>
<td>The start and stop times for mowing are incorrect.</td>
<td>Reset the start time and change the <em>Schedule</em> settings. Refer to <em>Schedule on page 31.</em></td>
</tr>
<tr>
<td>The product vibrates.</td>
<td>Damaged blades lead to imbalance in the cutting system.</td>
<td>Inspect the blades and screws and replace them if necessary. Refer to <em>Replace the blades on page 41.</em></td>
</tr>
<tr>
<td></td>
<td>Too many blades in the same position lead to imbalance in the cutting system.</td>
<td>Check that only one blade is fitted at each screw.</td>
</tr>
<tr>
<td></td>
<td>Different versions (thickness) of Husqvarna blades are used.</td>
<td>Check if the blades are of different versions.</td>
</tr>
<tr>
<td>The product runs, but the blade disc does not rotate.</td>
<td>The product searches for the charging station.</td>
<td>No action. The blade disc does not rotate when the product is searching for the charging station.</td>
</tr>
<tr>
<td>The product mows for shorter periods than usual between charges.</td>
<td>Grass or other foreign object blocks the blade disc.</td>
<td>Remove and clean the blade disc. Refer to <em>Replace the blades on page 41.</em></td>
</tr>
<tr>
<td></td>
<td>The battery is spent.</td>
<td>Replace the battery. Refer to <em>Battery on page 44.</em></td>
</tr>
<tr>
<td>Both the mowing and charging times are shorter than usual.</td>
<td>The battery is spent.</td>
<td>Replace the battery. Refer to <em>Battery on page 44.</em></td>
</tr>
<tr>
<td>Symptoms</td>
<td>Cause</td>
<td>Action</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>The product is parked for hours in the charging station.</td>
<td>The STOP button has been activated.</td>
<td>Make sure that the START button is pushed down.</td>
</tr>
<tr>
<td></td>
<td>Parking mode is activated.</td>
<td>Select the operating mode in Automower® Access or Automower® Connect.</td>
</tr>
<tr>
<td></td>
<td>The product is not allowed to operate if the battery temperature is too high or too low.</td>
<td>Check that the charging station is placed in an area with protection from the sun.</td>
</tr>
<tr>
<td>Uneven mowing results.</td>
<td>The product works too few hours per day.</td>
<td>Increase the mowing time. Refer to Schedule on page 31.</td>
</tr>
<tr>
<td></td>
<td>The How often? setting is incorrect in relation to the layout of the work area.</td>
<td>Check that the correct How often? value is selected.</td>
</tr>
<tr>
<td></td>
<td>The shape of the work area requires the use of Area 1-5 for the product to find its way to all remote areas.</td>
<td>Use Area 1-5 to steer the product to a remote area. Refer to To set the Lawn Coverage function on page 33.</td>
</tr>
<tr>
<td></td>
<td>The work area is too large.</td>
<td>Try to limit the work area or extend the work time. Refer to Schedule on page 31.</td>
</tr>
<tr>
<td></td>
<td>Blunt blades.</td>
<td>Replace all the blades. Refer to Replace the blades on page 41.</td>
</tr>
<tr>
<td></td>
<td>Long grass in relation to the set cutting height.</td>
<td>Increase the cutting height and then successively lower it.</td>
</tr>
<tr>
<td></td>
<td>Accumulation of grass by the blade disc or around the motor shaft.</td>
<td>Check that the blade disc rotates freely and easily. If not, screw off the blade disc and remove grass and foreign objects. Refer to To clean the blade disc on page 40.</td>
</tr>
</tbody>
</table>

### 6.7 Find breaks in the loop wire

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

Mowing the grass too low right after the installation can damage wire insulation. Damage to the insulation may not cause disruptions until several weeks or months later. To avoid this, always select the maximum cutting height the first weeks after installation and then lower the height one step at a time every second week until the desired cutting height has been reached.

A defective splicing of the loop wire can also lead to disruptions several weeks after the splice was done. A faulty splice can, for example, be the result of the original coupler not being pressed together hard enough with a pair of pliers, or that a coupler of lower quality than the original coupler has been used. Please first check all known splices before further troubleshooting is done.

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

The following method does not work if ECO mode is activated. Make sure first that ECO mode is turned off. Refer to ECO mode on page 32.

1. Check that the indicator lamp in the charging station flashes blue, which indicates a break
in the boundary loop. Refer to Indicator lamp in the charging station on page 55.

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

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

Start by switching connection AL and G1. Some models have additional guide wires (G2, G3). The same procedure can be followed for them.

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

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

a) If the suspected boundary wire is short then it is easiest to exchange all of the boundary wire between AL and the point where the guide wire is connected to the boundary wire (thick black line).

b) If the suspected boundary wire is long (thick black line) then do as follows: Put AL and G1 back to their original positions. Then disconnect AR. Connect a new loop wire to AR. Connect the other end of this new loop wire at the middle of the suspected wire section.
If the indicator lamp now is green, then the break is somewhere in the wire between the disconnected end to the point where the new wire is connected (thick black line below). In that case, move the connection for the new wire closer to the disconnected end (roughly at the middle of the suspected wire section) and check again if the indicator lamp is green.

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

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

5. When the break is found, the damaged section must be replaced with a new wire. Always use original couplers.
7 Transportation, storage and disposal

7.1 Transportation
The supplied Li-ion batteries obey the Dangerous Goods Legislation requirements.
• Obey all applicable national regulations.
• Obey the special requirement on package and labels for commercial transportations, including by third parties and forwarding agents.

7.2 Storage
• Fully charge the product. Refer to To charge the battery on page 38.
• Switch off the product. Refer to To switch off the product on page 38.
• Clean the product. Refer to Clean the product on page 40.
• Keep the product in a dry, frost free space.
• Keep the product with all wheels on level ground during storage.
• If you keep the charging station indoors, disconnect and remove the power supply and all the connectors from the charging station. Put the end of each connector wire in a connector protection box.

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

• Contact Husqvarna sales representative about what accessories are available for your product.

7.3 Disposal
• Obey the local recycling requirements and applicable regulations.
• For questions about how to remove the battery, refer to To remove the battery on page 60.

7.3.1 To remove the battery

CAUTION: Only remove the battery when you dispose the product.

1. Switch off the product. Refer to To switch off the product on page 38.
2. Turn the product upside down.
3. Remove the 6 screws and remove the battery cover.
4. Remove the two screws and remove the bracket.
5. Disconnect the two cables from the battery and remove the battery.
## 8 Technical data

### 8.1 Technical data

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Automower® 435X AWD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length, cm / in.</td>
<td>93 / 36.6</td>
</tr>
<tr>
<td>Width, cm / in.</td>
<td>55 / 21.6</td>
</tr>
<tr>
<td>Height, cm / in.</td>
<td>29 / 11.4</td>
</tr>
<tr>
<td>Weight, kg / lbs</td>
<td>17.3 / 38.1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical system</th>
<th>Automower® 435X AWD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery, Lithium-Ion 18 V/5.0 Ah</td>
<td>590 81 01-01</td>
</tr>
<tr>
<td>Art. No.</td>
<td></td>
</tr>
<tr>
<td>Battery, Lithium-Ion 18 V/4.9 Ah</td>
<td>590 81 01-02</td>
</tr>
<tr>
<td>Art. No.</td>
<td></td>
</tr>
<tr>
<td>Power supply, V/28 V DC</td>
<td>100-240</td>
</tr>
<tr>
<td>Low voltage cable length, m / ft</td>
<td>10 / 33</td>
</tr>
<tr>
<td>Mean energy consumption at maximum use</td>
<td>24 kWh/month in a 3500 m$^2$</td>
</tr>
<tr>
<td>Charge current, A DC</td>
<td>7</td>
</tr>
<tr>
<td>Typical mowing time, min</td>
<td>100</td>
</tr>
<tr>
<td>Typical charging time, min</td>
<td>30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Boundary wire antenna</th>
<th>Automower® 435X AWD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Frequency Band, Hz</td>
<td>300-80000</td>
</tr>
<tr>
<td>Maximum Radio-frequency power, mW @60m $^6$</td>
<td>&lt;25</td>
</tr>
</tbody>
</table>

**Noise emissions measured in the environment as sound power**

| Measured sound power noise level, dB (A) | 60 |
| Guaranteed sound power noise level, dB (A) | 62 |
| Sound pressure noise level at the operator’s ear, dB (A) $^8$ | 49 |

The noise emission declarations conforms to EN 50636-2-107:2015

---

$^6$ Maximum active output power to antennas in the frequency band in which the radio equipment operates.

$^7$ Noise emissions in the environment measured as sound power ($L_{WA}$) in conformity with EC directive 2000/14/EC and New South Wales legislation (Protection of the Environment Operations Regulation 2017, Noise Control). The guaranteed sound power level includes variation in production as well as variation from the test code with 1-3 dB(A).

$^8$ Sound pressure noise uncertainties $K_{PA}$, 2-4 dB (A)
<table>
<thead>
<tr>
<th><strong>Mowing</strong></th>
<th><strong>Automower® 435X AWD</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutting system</td>
<td>3 pivoted cutting blades</td>
</tr>
<tr>
<td>Maximum blade motor speed, rpm</td>
<td>2475</td>
</tr>
<tr>
<td>Power consumption during cutting, W +/- 20 %</td>
<td>40</td>
</tr>
<tr>
<td>Cutting height, cm / in.</td>
<td>3-7 / 1.2-2.8</td>
</tr>
<tr>
<td>Cutting width, cm / in.</td>
<td>22 / 8.7</td>
</tr>
<tr>
<td>Narrowest possible passage, cm / in.</td>
<td>60 / 24</td>
</tr>
<tr>
<td>Maximum angle for work area, %</td>
<td>70</td>
</tr>
<tr>
<td>Maximum angle for boundary wire, %</td>
<td>50</td>
</tr>
<tr>
<td>Maximum length boundary wire, m / ft</td>
<td>800 / 2600</td>
</tr>
<tr>
<td>Maximum length guide loop, m / ft</td>
<td>400 / 1300</td>
</tr>
<tr>
<td>Working capacity, m² / yd², +/- 20%</td>
<td>3500</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>IP-classification</strong></th>
<th><strong>Automower® 435X AWD</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Robotic lawnmower</td>
<td>IPX4</td>
</tr>
<tr>
<td>Charging station</td>
<td>IPX1</td>
</tr>
<tr>
<td>Power supply</td>
<td>IPX4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Frequency Band Support</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bluetooth® Frequency range</strong></td>
<td>2400.0-2483.5 MHz</td>
</tr>
<tr>
<td><strong>Automower® Connect 2G</strong></td>
<td>GSM 850 MHz</td>
</tr>
<tr>
<td></td>
<td>E-GSM 900 MHz</td>
</tr>
<tr>
<td></td>
<td>DCS 1800 MHz</td>
</tr>
<tr>
<td></td>
<td>PCS 1900 MHz</td>
</tr>
<tr>
<td><strong>Automower® Connect 3G</strong></td>
<td>Band 19 (800 MHz)</td>
</tr>
<tr>
<td></td>
<td>Band 5 (850 MHz)</td>
</tr>
<tr>
<td></td>
<td>Band 8 (900 MHz)</td>
</tr>
<tr>
<td></td>
<td>Band 2 (1900 MHz)</td>
</tr>
<tr>
<td></td>
<td>Band 1 (2100 MHz)</td>
</tr>
</tbody>
</table>
### Frequency Band Support

<table>
<thead>
<tr>
<th>Automower® Connect 4G</th>
<th>Band 12 (700 MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Band 17 (700 MHz)</td>
</tr>
<tr>
<td></td>
<td>Band 28 (700 MHz)</td>
</tr>
<tr>
<td></td>
<td>Band 13 (700 MHz)</td>
</tr>
<tr>
<td></td>
<td>Band 20 (800 MHz)</td>
</tr>
<tr>
<td></td>
<td>Band 26 (850 MHz)</td>
</tr>
<tr>
<td></td>
<td>Band 5 (850 MHz)</td>
</tr>
<tr>
<td></td>
<td>Band 19 (850 MHz)</td>
</tr>
<tr>
<td></td>
<td>Band 8 (900 MHz)</td>
</tr>
<tr>
<td></td>
<td>Band 4 (1700 MHz)</td>
</tr>
<tr>
<td></td>
<td>Band 3 (1800 MHz)</td>
</tr>
<tr>
<td></td>
<td>Band 2 (1900 MHz)</td>
</tr>
<tr>
<td></td>
<td>Band 25 (1900 MHz)</td>
</tr>
<tr>
<td></td>
<td>Band 1 (2100 MHz)</td>
</tr>
<tr>
<td></td>
<td>Band 39 (1900 MHz)</td>
</tr>
</tbody>
</table>

### Power Class

<table>
<thead>
<tr>
<th>Bluetooth® Output power</th>
<th>8 dBM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automower® Connect 2G</td>
<td>Power Class 4 (for GSM/E-GSM) 33 dBm</td>
</tr>
<tr>
<td></td>
<td>Power Class 1 (for DCS/PCS) 30 dBm</td>
</tr>
<tr>
<td></td>
<td>Power Class E2 (for GSM/E-GSM bands) 27 dBm</td>
</tr>
<tr>
<td></td>
<td>Power Class E2 (for DCS/PCS bands) 26 dBm</td>
</tr>
<tr>
<td>Automower® Connect 3G</td>
<td>Power Class 3 24 dBm</td>
</tr>
<tr>
<td>Automower® Connect 4G</td>
<td>Power Class 3 23 dBm</td>
</tr>
</tbody>
</table>

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

The products are made in England or the Czech Republic. See information on the rating plate. Refer to Introduction on page 3.

### 8.2 Registered trademarks

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

warranty covers this product’s functionality for a period of 2 years from date of purchase. The warranty covers serious faults relating to materials or manufacturing faults. Within the warranty period, we will replace the product or repair it at no charge if the following terms are met:

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

Examples of faults which are not included in the warranty:

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

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

If an error occurs with your Husqvarna product, please contact Husqvarna customer service for further instructions. Please have the receipt and the product’s serial number at hand when contacting Husqvarna customer service.
10 Applicable to US/CA market

10.1 Supplier's Declaration of Conformity
Issuer: Husqvarna AB, Drottninggatan 2, S-561 82 Huskvarna, Sweden

Responsible party: Husqvarna Professional Products, Inc. 9335 Harris Corners Parkway
Suite 500 Charlotte, NC 28269 United states U.S.
Contact Information: Michael Campbell, Sr Director Quality, test compliance, Telephone: +1
704 597 5000.

10.2 Compliance requirements
FCC ID: XPY1CGM5NNN (Automower® Connect module 2G/3G).
FCC ID: XPYUBX18ZO01 (Automower® Connect 2G/4G).
FCC ID: ZASHQ-BLE-1C (the Bluetooth® module).
The Bluetooth® module is located on the HMI board (PCBA) in the upper chassis. It must only be accessed by an authorized service technician.

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.

Models without a hatch: The supplied label shall be attached to the product according to figure below

This device contains the module
FCC ID: XXX1YYYY2ZZZ

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

Note: This device complies with Part 15 of the FCC Rules [and with Industry Canada licenceexempt 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 harmful interference to radio or television reception, which can be determined by switching 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.