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You can read the recommendations in the user guide, the technical guide or the installation guide for HUSQVARNA AUTOMOWER 230 ACX. You'll find the answers to all your questions on the HUSQVARNA AUTOMOWER 230 ACX in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual HUSQVARNA AUTOMOWER 230 ACX
User guide HUSQVARNA AUTOMOWER 230 ACX
Operating instructions HUSQVARNA AUTOMOWER 230 ACX
Instructions for use HUSQVARNA AUTOMOWER 230 ACX
Instruction manual HUSQVARNA AUTOMOWER 230 ACX

HUSQVARNA AUTOMOWER™
230 ACX/220 AC
OPERATOR'S MANUAL



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Manual abstract:

3 Symbols in the Operator's Manual

.....
.....
.....

... 7 1.4 Safety instructions .

.....
.....
.....
.....
.....

..... 8 2. Presentation ..

.....
.....
.....
.....
.....
.....
.....

2.1 AutomowerTM, what's what?

.....
.....
.....
.....

. 2.2 Function of AutomowerTM ...

.....
.....
.....
.....
.....

..... 2.3 Search method .

.....
.....
.....
.....
.....
.....

..... 2.4 More than one AutomowerTM in a garden

.....
.....

... 3.6 Checking the installation

.....
.....
.....
.....
.....
.....

. 3.7 Linking AutomowerTM to the charging station

.....
.....

. 3.8 Installation of the guide wire

.....
.....
.....
.....

.. 4. Use ..

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

... 4.1 Charging a discharged battery

.....
.....
.....
.....

. 4.2 Using the timer ...

.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 4.3 Starting AutomowerTM .

.....
.....
.....
.....

.....
.....
.....
.....

.. 4.4 Stopping AutomowerTM

.....
.....
.....
.....
.....
.....
.....

.... 4.5 Restart

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

..... 4.6 Switching off AutomowerTM ...

.....
.....
.....
.....
.....
.....
.....

4.7 Adjusting the cutting height

.....
.....
.....
.....
.....
.....
.....

.... 5. Control panel

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

5.1 Shortcuts

.....
.....

.....
.....
.....

.....
.....
.....
.....

.....
... 5.2 Programs .

.....
.....

.....
.....
.....

.....
.....
.....
.....

.....
. 5.3 Select ...

.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
5.4 Numbers

.....

.....
.....
.....
.....

.....
.....
.....
.....

.....
..... 5.
5 Main switch

.....

.....
.....
.....
.....

.....
.....
.....

.....
..... 6. Menu functions .

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 6.1 Main menu

.....
.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

6.2 AutomowerTM main menu, menu overview

.....
.....

6.3 Commands (1)

.....
.....
.....
.....
.....

.....
.....
.....
.....

... 6.4 Timer (2)

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....
.....

.. 6.5 Garden (3)

.....
.....
.....

.....
.....
.....
.....

.....
.....
.....

..... 6.6 Settings (4) ..

.....
.....
.....

.....
.....
.....

.....
.....
.....

. 10 11 12 15 16 16 17 18 18 22 22 30 32 32 33 37 37 38 38 38 39 39 40 41 42 43 43 44 44 45 45 46 47 47 49 58 7. Garden example

.....
.....
.....
.....

.....
.....
.....
.....

..... 63 8. Maintenance ...

.....
.....
.....

.....
.....
.....

.....
.....
.....

..... 8.

1 Battery

.....
.....
.....

.....
.....
.....

.....
.....
.....

.. 8.2 Winter storage

.....

.....
.....

.....
.....
.....

.....
.....

8.3 Service

.....
.....
.....

.....
.....
.....

.....
.....

.. 8.4 After winter storage

.....
.....
.....

.....
.....
.....

. 8.5 Cleaning

.....
.....

.....
.....
.....

.....
.....
.....

8.6 Replacing the blades

.....
.....

.....
.....
.....

..... 68 68 69 69 69 70 71 9. Trouble shooting

.....
.....
.....

.....
.....
.....
.....

... 73 9.1 Fault messages .

.....
.....
.....
.....
.....
.....
.....
.....

.... 73 9.2 Fault symptom

.....
.....
.....
.....
.....
.....
.....
.....

.. 75 10. Technical data

.....
.....
.....
.....
.....
.....
.....
.....

..... 76 11. Environmental information .

.....
.....
.....
.....

..... 76 12.

EU declaration of conformity

.....
.....
.....

.. 77 13. Index ...

.....
.....

Carry the mower with the blade disc away from the body. 3012-395 Maintenance WARNING When the mower is turned upside down the main switch must always be set to the OFF position. The main switch should be set to the OFF position during all work on the mower's underframe, such as cleaning or replacing the blades. 3012-409 · Inspect Automower each week and replace any damaged or worn parts. Check especially that the blades and blade disc are not damaged. Replace all blades and screws at the same time if necessary so that the rotating parts are balanced, see 8. Maintenance on page 68. English - 9
2. PRESENTATION 2.

Presentation This chapter contains information you should be aware of when planning the installation. An installation of Husqvarna Automower™ includes four main components: Automower, an automatic lawn mower that mows the lawn by moving in essentially an irregular pattern. The mower is powered by a maintenance-free battery. 3012-691 Charging station, where your Automower returns when the charge level in the battery becomes too low. The charging station has three functions: . . . To send control signals along the boundary wire.

To send out signals so Automower finds the charging station. To charge Automower battery. 3012-509 Transformer, which is connected between the charging station and a 230V wall socket. The transformer is connected to the wall socket via an integrated power cord and to the charging station via a 20 m long low voltage cable. The low voltage cable must not be extended.

3012-220 Wire, laid in a loop around Automower's working area. The boundary wire is laid around the edges of the lawn and around objects and plants that the mower must not run into. The wire is also used for any guide wires. The wire supplied with the installatio. Two sensors, at the front and back on Automower, sense when the mower approaches the boundary wire. Automower overruns the wire by up to 27 centimetres before it turns. The overrun length can be set, see Drive past wire (3-4-2) on page 57. 3012-511 3012-693 English - 13 2. PRESENTATION The STOP button on the top of Automower is mainly used to stop the mower when it's running. When the STOP button is pressed a cover opens, behind which there is a control panel.

The STOP button remains depressed until the cover is closed again. This acts as start inhibitor. 3012-388 The control panel on the top of Automower is where you manage all the mower settings. The main switch is also located on the control panel. Open the control panel cover by pressing down the STOP button. When the main switch is turned ON for the first time, a start-up sequence begins which includes: selection of the language, time format, date format and four digit PIN code, plus setting of the time and date, see page 32. The selected PIN code must then be entered each time the main switch is moved to the ON position. This theft-prevention function is called Time lock (4-1-2) and Automower has this function activated as a default setting. The function also means that the mower stops mowing after a set number of days and will not continue until the correct PIN code has been entered. The function can be deactivated or changed as required.

For more information about Time lock (4-1-2), see page 58. The Automower can enter a sleep mode to save power. The display on the control panel is then completely dimmed. The sleep mode is activated 25 minutes after the STOP button has been pressed and then not reset to the operating mode. Automower is then activated by switching the main switch off and on.

The sleep mode can also be activated in the event of a fault occurring during mowing or charging and which is not rectified within 25 minutes. Automower is then activated by pressing the STOP button. 3012-700 3012-400 14 - English 2. PRESENTATION Movement pattern The mower's movement pattern is irregular and is determined by Automower itself. A movement pattern is never repeated.

This mowing system means the lawn is mown equally without any mowing lines. 3012-695 If Automower enters an area where it senses the grass is longer than earlier, it can change the movement pattern. It can then mow in a square pattern to cover the area of longer grass more systematically. When Automower mows in a square pattern, this is known as square mode cutting. The mower must have been operational for more than 6 hours in order for Automower to start square mode cutting. 3012-696 2.3 Search method Automower can be set to search for the charging station in three different ways. Using the setting options the three search methods can be combined to optimise the search for the charging station. The required search method or methods depends on the shape of the garden. Search method 1: Irregular Automower runs irregularly until it finds the charging station.

This search method is best for an installation that has an open lawn and no narrow passages (narrower than about 3 metres). The advantage of this search method is that there is no risk of leaving tracks in the grass after the mower. The disadvantage is that the search times can be somewhat longer. 3012-483 English - 15 2. PRESENTATION Search method 2: Follow boundary wire Automower runs irregularly until it reaches the boundary wire. The mower then follows the boundary wire in to the charging station. This search method is best for an installation that has an open lawn with wide passages (wider than about 3 metres) and no, or only a small, island. The advantage of this search method is that the search times are generally short. The disadvantage is that tracks can be formed to a certain extent in the grass behind the mower. Problems can also arise if there are narrow passages or a large number of islands, for example, bushes.

Automower circles an island roughly twice, which can take a long time and create tracks. 3012-484 Search method 3: Follow guide wire Automower runs irregularly until it reaches the guide wire. The mower then follows the guide wire in to the charging station. The guide wire is an extra wire that is laid from the charging station, out towards a remote part of the working area or through a narrow passage and is then connected to the boundary wire. Up to two guide wires can be installed for 230 ACX.

For more information, see 3.8 Installation of the guide wire on page 33. This search method is best for an installation that has numerous or large islands, narrow passages or steep slopes. The advantage of this search method is that the search times are generally short. The disadvantage is that the mower can leave tracks in the grass along the length of the guide wire.

3012-677 2.4 More than one Automower™ in a garden If you install more than one Automower in the same area of lawn, each mower must have its own PIN code. A complete installation, including charging station, is required for each mower. The boundary wires for the different installations can be routed next to each other.



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Contact your dealer for further information. 2.5 One Automower™ in several gardens One Automower can easily be used for more than one garden, where each garden has its own charging station and boundary wire. The mower can then have the same PIN code for all gardens. Contact your dealer for further information. 16 - English 3.

INSTALLATION 3. Installation This chapter describes how you install Husqvarna Automower™. Before starting the installation read the previous chapter 2. Presentation. Read the whole of this chapter too before starting the installation. How the installation is made also affects how well Automower will work. It is therefore important to plan the installation carefully. Planning is simplified if you make a sketch of the working area, including all obstacles. This makes it easier to see the ideal positions for the charging station, boundary wire and guide wire, if used. Draw on the sketch how the boundary wire and the guide wire, if used, should be routed.

Carry out the installation in the following steps: 3.1 Preparations. 3.2 Installation of the charging station. 3.

3 Charging the battery. 3.4 Installation of the boundary wire. 3.5 Connecting the boundary wire.

3.6 Checking the installation. 3.7 Linking Automower™ to the charging station. 3.8 Installation of the guide wire. To carry out a complete start-up of Automower the charging station must be in position and connected, the boundary wire connected, and the mower connected to the charging station. If you would like to start the mower without having completed the full boundary installation, you can connect a temporary short loop around the mower. English - 17 3. **INSTALLATION 3.**

1 Preparations 1. If the lawn in the proposed working area is taller than 10 cm, mow it using a normal lawn mower. Then collect the clippings. Read carefully through all the steps before the installation. Check that all parts for the installation are included: The numbers in brackets refer to the detail diagram 2.1 Automower™, what's what? on page 11. · Operator's Manual (26) · Automower · Charging station (15) · Loop wire for the boundary wire and guide wire (18) · Transformer (19) · Low voltage cable (20) · Staples (21) · Connector for the loop wire (22) · Nails (23) · Measurement gauge (24) · Solderless coupler for the loop wire (25) During installation you will also need: A hammer to knock the staples into the ground, combination pliers, and a straight spade if the boundary wire is to be buried. 3012-512 2. 3. 3.

2 Installation of the charging station Ideal position of the charging station For examples of good positioning of the charging station, see 7. Garden example on page 63. If you are going to install a guide wire, read 3.8 Installation of the guide wire, see page 33, before choosing the position of the charging station.

The charging station must be positioned with a great deal of free area in front of it (at least 3 metres).

It should also be positioned centrally in the working area so that Automower can easily find the charging station and quickly reach all parts of the working area. It is a good idea to place the charging station in the shadow. The battery is spared if it is charged in the lowest possible ambient temperature. 3012-510 18 - English 3. **INSTALLATION** The charging station must be positioned on relatively level ground.

The height difference must not differ more than 5 cm between the front and rear of the charging station. 3012-554 The charging station must not be positioned so that its plate bends. 3012-532 Consider the distance to a wall socket when choosing the position. The charging station should be connected to a 230V wall socket via the low voltage cable and transformer. The supplied low voltage cable is 20 metres long. Tip! It is possible to let the low voltage cable cross the working area. It must then be either stapled down or buried. In some cases there is a better positioning option for the charging station than close to a house wall or by the closest wall socket. **IMPORTANT INFORMATION** The low voltage cable must not be extended. The transformer must be placed where it is well ventilated and is not exposed to direct sunlight.

It is also beneficial if the transformer can be placed under a roof. **IMPORTANT INFORMATION** The mains cable on the transformer must not be replaced. In those cases the mains cable has been damaged, the transformer must be discarded and replaced by a new one. It is recommended to use an earth fault-breaker when connecting the transformer to the wall socket. Do not put the charging station in a corner or pocket in the working area. 3012-220 3012-223 3012-513 English - 19 3. **INSTALLATION** Avoid placing the charging station in a narrow passage (narrower than about 3 metres). 3012-514 3012-515 Do not position the charging station so that the mower can come closer than 3 metres behind the charging station (for example on a narrow point). The mower will not then find the charging station. 3012-744 Installation and connecting the charging station 1.

2. Position the charging station in a suitable spot. Secure the charging station to the ground using the supplied nails. **IMPORTANT INFORMATION** It is not permitted to make new holes in the plate. Only the existing holes may be used to secure the plate to the ground.

3012-549 20 - English 3. **INSTALLATION 3.** Connect the low voltage cable to the charging station. Only use original cable and transformer. 3012-263 4. Connect the low voltage cable to the transformer. The connectors may be slightly difficult to connect, as they are moisture-proof. 3012-262 5. Connect the transformer's power cord to a 230V wall socket. It is preferable to use an earth-fault breaker as recommended. **IMPORTANT INFORMATION** Do not tread or walk on the charging station plate. 3012-533 English - 21 3. **INSTALLATION 3.3 Charging the battery** Automower is supplied with an uncharged battery.

As soon as the charging station is connected, it is possible to charge the mower.

1. 2. Set the main switch to the OFF position. Place Automower in the charging station to charge the battery while you are laying the boundary wire. From an uncharged state the battery takes about 1 1/2 to 2 1/2 hours until it is fully charged. **IMPORTANT INFORMATION** Automower cannot be used before the installation is complete. 3012-385 3.4 Installation of the boundary wire The boundary wire can be installed in one of the following ways: · Securing the wire to the ground with staples. It is preferable to staple down the boundary cable, if you want to make adjustments to the boundary wire during the first few weeks of operation. · Bury the wire.

It is preferable to bury the boundary wire if you want to dethatch or aerate the lawn. If necessary both methods can be combined so one part of the boundary wire is stapled down and the remainder is buried. Best position for the boundary wire The boundary wire should be laid so it: · Forms a loop around the working area for Automower.



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Only an original boundary wire must be used. This is tinned and has a high quality insulation to withstand the dampness in the ground.

Maintains a maximum distance of 3 metres from Automower in the entire working area. Ideally not longer than 500 meter. The boundary wire is laid at different distances from obstacles depending on what the working area borders. The picture below shows how the boundary wire should be routed around the working area and around obstacles. . . . 22 - English 3.

INSTALLATION 3012-688 Boundaries for the working area If a high obstacle, for example a wall or fence, borders the working area, the boundary wire should be laid 35 cm from the obstacle. This will prevent Automower from colliding with the obstacle and reduce body wear. 35 cm 3012-382 If the working area borders against a small ditch, for example, a flower bed or a small elevation, e.g. a low verge (3 - 5 cm), the boundary wire should be laid 30 cm inside the working area. This prevents the wheels from driving into the ditch or up onto the verge. 30cm 3012-381 English - 23 3. **INSTALLATION** If the working area borders against a flat path or the like that lies level with the lawn, it is possible to allow Automower to run a little over the path. The boundary wire should then be laid 10 cm from the edge of the path. 10 cm 3012-383 When the working area is divided by a flat slab path that is level with the lawn, it is possible to allow Automower to run over the path.

It can be an advantage to lay the boundary wire under the slabs. The boundary wire can also be laid in the joint between the slabs. Note! Automower must never run over a gravel path or similar material, which can damage the blades. If the working area borders against, for example, pools of water the boundary wire should be supplemented with a fence or the like. The height must then be at least 15 cm. This will prevent Automower, under any circumstances, coming outside of the working area. When Automower searches for the charging station or follows the loop according to the function Follow loop (3-2) (see page 51), it runs along the side of the boundary wire at a specific distance. The Corridor width (3-2-3) function determines the distance from the boundary wire that the mower shall run. It is recommended to state as high a Corridor width value as possible. A high Corridor width value reduces the risk of tracks forming. For more information about Corridor width (3-2-3), see page 54. In exceptional cases Automower can be set to straddle the boundary wire, that is to say, half the mower inside the loop and the other half outside. The boundary wire must then be kept at a distance of about 40 cm from all the boundaries of the working area and from the edges of a passage. 3012-534 3012-459 24 - English 3. **INSTALLATION Boundaries within the working area** Use the boundary wire to demarcate areas inside the working area by creating islands around obstacles that can not withstand a collision, for example, flower beds and fountains. Run the cable out to the area, route it around the area to be demarcated and then back along the same route. If staples are used, the wire should be laid under the same staple on the return route. When the boundary wire to and from the island are close together, the mower can drive over the wire. 3012-647 Obstacles that can withstand a collision, for example, trees or bushes higher than 15 cm, do not need to be demarcated by the boundary wire. Automower will turn when it collides with this type of obstacle.

However, for the most gentle and silent operation, it is preferable to demarcate all fixed objects in and around the working area. Obstacles that slope slightly, for example, stones or large trees with raised roots, should be demarcated or removed. Automower can otherwise slide up onto this kind of obstacle causing the blades to be damaged. 3012-697 **Secondary areas** It is recommended to create a secondary area when the working area is made up of two areas that are joined by a passage where the distance between the boundary wires is less than 60 cm. Run the boundary wire then around the secondary area so that it forms an island outside of the main area. Automower must be moved manually between the main and secondary areas. Use the MAN operating mode when Automower shall mow a secondary area. Instead of creating an island with the existing boundary wire, a secondary area generator can ideally be used. A secondary area generator can be purchased as an accessory. Contact your dealer for further information.

Secondary area Main area 3012-682 English - 25 3. INSTALLATION Passages when mowing Long narrow passages and areas, narrower than 1.5 - 2 metres, should be avoided. When Automower mows there is a risk that it runs around in the passage or area for a too long a period. The lawn will then look flattened. **Passages when searching for the charging station** The distance between the boundary wires in a passage must be at least 3 metres in order for Automower to follow the boundary wire through the passage without the need of changing the mower's default settings. When the distance is less than 3 metres, there are two options available that permit Automower to run through the passage. 1. Install a guide wire. When the distance between the boundary wires is less than 3 metres, it is recommended to install a guide wire through the passage.

For more information about the guide wire, see 3.8 Installation of the guide wire on page 33. Usually the installation of the guide wire is the best solution with narrow passages. The narrowest passage that Automower can run through with the help of a guide wire is 60 cm between the boundary wires. 2.

Change the Corridor width setting (3-2-3). When the distance between the boundary wires in a narrow passage is more than 2 metres it is possible for Automower to run through the passage if a low value is set for the Corridor width (3-2-3) function (see page 54). However, a low value involves a large risk of tracks forming along the entire boundary wire. The transition between a large area and a passage should be, if possible, designed like a funnel, with rounded corners, to make it easier for Automower to enter the passage. **Slopes** The boundary wire can be laid across a slope that slants less than 10 %.

Secondary area Main area At least 3 m 3012-684 3012-668 26 - English 3. **INSTALLATION** The boundary wire should not be laid across a slope that is steeper than 10 %. There is a risk of Automower finding it difficult to turn there. The mower will then stop and show the fault message Outside working area. The risk is at its greatest in damp weather conditions, as the wheels can slip on the wet grass. However, the boundary wire can be laid across a slope steeper than 10 % when there is an obstacle that Automower can be permitted to collide with, for example, a fence or a dense hedge. Automower can mow areas inside the working area that slope up to 35 cm per distance metre (35 %).



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Areas that slope more must be demarcated by the boundary wire. When any part of the working area's boundary slopes more than 10 cm per distance metre (10 %), the boundary wire must be routed about 35 cm in on flat ground before the slope starts. 3012-673 3012-674 Laying out the boundary wire Run the boundary wire around the working area, but wait before connecting the wire to the charging station.

3012-221 English - 27 3. **INSTALLATION IMPORTANT INFORMATION** Extra wire must not be placed in coils outside the boundary wire. This can disrupt Automower™. Tip! Use the supplied measurement gauge as a guide when you lay out the boundary wire. This helps you to easily set the correct distance between the boundary wire and the boundary/obstacle. If you intend to staple down the boundary wire: · 3012-281 Tip! Mow the lawn where the wire is to be laid using a normal lawn mower or a trimmer. It will then be easier to lay the wire close to the ground and the risk of the mower cutting the wire off is reduced. · Make sure to lay the boundary wire tight to the ground and secure the staples close together with approximately 75 cm between each staple. The wire must generally lie close to the ground so, as not to be cut off before the grass roots have grown over it. Use a hammer to knock down the staples in the ground.

Exercise care when knocking in the staples and make sure the wire is not under strain. Avoid forming the wire in sharp bends. · If you intend to bury the boundary wire: · Make sure to place the boundary wire at least 1 cm and a maximum of 20 cm into the ground. 3012-745 The boundary wire must be crossed on the path to and from an island. 3012-686 28 - English 3.

INSTALLATION Laying the boundary wire in towards the charging station The boundary wire can be routed in several different ways in towards the charging station. The best alternative is to route the wire completely outside the charging station, see alternative 1. The wire can also be placed under the charging station plate as shown in alternative 2 in the illustration. However, the wire should not be placed outside alternative 2 because it can then be difficult for Automower to find the charging station. 1.

2. 3012-671 When connecting to the charging station, the right end of the boundary wire should be guided into the right-hand hole and the cable's left end in the left-hand hole. 3012-462 Joining the boundary wire If the boundary wire is not long enough and needs to be spliced: Use original solderless coupler. It is waterproof and gives a reliable electrical connection. To splice: Insert both cable ends in the coupler. Now press down the button on top of the connector fully. Use a pair of pliers or the like, as the button on the connector is difficult to press down by hand. **IMPORTANT INFORMATION** Twisted cables, or a screw terminal (chock-block), insulated with insulation tape is not a satisfactory splice. Soil moisture will cause the conductors to oxidise and after a while result in a broken circuit. 3012-832 English - 29 3.

INSTALLATION 3.5 Connecting the boundary wire Connect the boundary wire to the charging station: 1. Lift up the cover on the charging station: · Grip under the edge of the cover with both hands and pull straight out towards the sides. · Now lift the cover straight up. 3012-268 3012-269 2. Slide in the ends of the boundary wire in the lowermost holes on the charging station and catch them in the uppermost holes. The right hand wire end should be inserted in the right hand hole, and the left hand wire end in the left hand hole. 3012-508 **IMPORTANT INFORMATION** The boundary wire must not be crossed when connecting to the charging station. Therefore the right hand wire end must be connected to the right hand connector on the charging station and vice versa. 3012-506 30 - English 3.

INSTALLATION 3. Place the cable ends in the connector: · Open the connector. · Place the wire in the connector grip. 3012-284 4. Press the connector together using a pair of pliers.

Press until you hear a click. 3012-264 5. Cut off any surplus boundary wire. Cut 1 - 2 cm above respective connectors. 3012-265 6.

Press the connector onto the contact pin, marked A, on the charging station. **IMPORTANT INFORMATION** The right hand connector should be connected on the right hand contact pin on the charging station and vice versa. 3012-507 English - 31 3. **INSTALLATION 7.** Refit the cover on the charging station. Ensure the three guides on the charging station enter the right holes in the cover. 3012-270 3.6 **Checking the installation** Check the loop signal by looking to see what indication the green LED on the charging station is giving. · · · Steady light = the signal is okay. Flashing once every other second = break in the loop and no signal found.

Flashing twice every other second = weak signal. This may be due to the boundary wire exceeding 500 metres or that the cable is damaged. If the mower works, it is not a problem. 3012-282 3.7 Linking Automower™ to the charging station 1. 2. 3. Open the control panel cover by pressing the STOP button.

Place Automower in the charging station. Set the main switch to the ON position.

A start-up sequence begins when Automower is started for the first time. The following is requested: Language, time format, correct time, date format, date, and four-digit PIN code. All combinations except 0000 are permitted. 3012-385 3012-408 When you have chosen a PIN code with Automower placed in the charging station, the mower and charging station are then linked to each other. 32 - English 3.

INSTALLATION 3.8 Installation of the guide wire The guide wire is an extra wire that is laid from the charging station, out towards a remote part of the working area or through a narrow passage and is then connected to the boundary wire. The same wire used for the boundary wire is also used for the guide wire. Up to two guide wires can be installed for 230 ACX. In similarity to the boundary wire, the guide wire can either be stapled down or buried.

When a guide wire is installed, Automower can also be set to follow the guide wire out from the charging station using the function Follow loop out (3-2-1), see page 51. Need of a guide wire The guide wire may be necessary in installations where the search methods Irregular and Follow boundary wire are not adequate for the mower to quickly and easily find the charging station. A few examples of installations where a guide wire is recommended follow below: ·

Narrow passages. In passages where the distance between the boundary wires is less than 3 metres, it is recommended to install a guide wire through the passage. This is a better solution than allowing Automower to follow close to the boundary wire by setting a low Corridor width value. · The boundary wire runs along a steep slope (steeper than 25 %).



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When Automower follows the boundary wire that runs along a steep slope, the mower will change direction and run away from the boundary wire. · Numerous or large islands. If Automower is permitted to follow the boundary wire it may circle an island roughly twice before it leaves the island and once again searches for the boundary wire. 3012-736 English - 33 3.

INSTALLATION · The route to a remote area is long or complicated. When Automower shall follow the boundary wire to or from a remote area and the route along the boundary wire to the area is long or complicated. 3012-737 · The boundary wire runs across a long slope (steeper than 10 %). When Automower follows the boundary wire across a slope (steeper than 10 %) the mower must compensate for the slope. The mower then follows the boundary wire at a slower speed. The risk of the mower running outside of the working area due to skidding increases. · The charging station is positioned on an island. When there is more than 4 metres between the charging station and the outer edge of the boundary wire, it can take a long time for Automower to find the charging station when it follows the boundary wire. There is a risk of the mower following the outer edge of the working area 2 - 3 turns before it changes direction and starts to follow the loop at another spot. 3012-738 Placement and connection of the guide wire In the text below the guide wires are called guide 1 and guide 2, as is the case on the rear of the charging station (220 AC only has guide 1).

1. Check that the charging station has the best placement. The guide wire together with the part of the boundary wire that makes up the return to the charging station is known as the guide loop. The current in the guide loop always goes to the left in the connection between the guide wire and the boundary wire. The adjoining picture shows what is considered a guide loop.

The picture is also a good example of an ideal position for the charging station to give the shortest possible guide loop. 3012-651 34 - English 3.

INSTALLATION The longer the guide wire, the closer the mower follows the guide wire. If the guide wire is longer than 300 metres, the mower may find it difficult to follow the wire. This varies depending on the design of the garden and installation.

3012-650 2. 3. Lift up the cover on the charging station. If you intend to install guide 1: · Insert the end of guide 1 into the lower right-hand hole on the charging station and catch it in the upper hole. · Secure a connector on the guide wire. · Connect guide 1 to the contact pin on the charging station marked guide 1. If you intend to install guide 2: · Insert the end of guide 2 into the lower left-hand hole on the charging station and catch it in the upper hole. · Secure a connector on the guide wire. · Connect guide 2 to the contact pin on the charging station marked guide 2. 4.

5. Route the cable straight under the charging station plate. Route the guide wire at least 2 metres straight out from the front edge of the charging plate. Maximum distance At least 30 cm 3012-538 At least 2m 3012-834 English - 35 3. INSTALLATION If you shall install the guide wire through a passage: · Automower follows the guide wire on the same side of the wire both to and from the charging station. This means that in towards the charging station the guide wire is on the right side of the mower and away from the charging station the guide wire is on the left side of the mower. In the passage, the guide wire must be placed so that the mower has as much space to run as possible. The distance between the boundary wire and the guide wire must however be at least 30 cm (see the picture above). The same minimum distance (30 cm) also applies between the guide wire and the guide wire in the passage, Avoid laying the wire at sharp angles. This can make it difficult for the mower to follow the guide wire.

6. 7. 8. Run the guide wire to the spot on the boundary wire where you want to make the connection. Lift out the boundary wire.

Cut off the boundary wire using a pair of wire cutters. 90° 135° 135° 3012-649 3012-742 9. Connect the guide wire to the boundary wire with the help of a solderless coupler: · Insert the ends of the boundary wire in the right respective left-hand holes on the connector. · Insert the end of the guide wire in the centre hole. · Press down the button on the connector fully.

10. Staple down/bury the connector in the lawn. 3012-835 IMPORTANT INFORMATION The function of the guide wire varies depending on how the working area appears. It is therefore recommended to test the installation with the help of the function Test IN (3-2-4), see page 55. 36 - English 4. USE 4. Use 4.1 Charging a discharged battery When Husqvarna Automower™ is new or has been stored for a long period the battery will not be charged and needs to be charged before starting. Charging takes between 1 1/2 and 2 1/2 hours. 1.

Place Automower in the charging station. Insert the mower as far as possible. 3012-385 Good contact is made when both the charging strips on the mower touch the centre of the contact strips on the charging station. 3012-299 2. 3. Open the control panel cover. Set the main switch to the ON position. Information about the charging process is shown on the display during the entire charging process. WARNING Read the safety instructions before you start your Automower. I001-003 WARNING Keep your hands and feet away from the rotating blades.

Never put your hands or feet close to or under the body when the motor is running. 3012-663 English - 37 4. USE 4.2 Using the timer The lawn should not be cut too often to obtain the best mowing result. Use the timer function (see 6.

4 Timer (2) on page 47) to avoid a downtrodden lawn and to get the maximum life from your Automower. For example, the quality of your lawn will improve if it is mown every other day instead of 12 hours each day. In addition, the grass benefits from resting completely during at least a three-day period once a month. 4.3 Starting Automower™ 1.

2. 3. Press the STOP button to open the control panel cover. Set the main switch to the ON position. Enter the PIN code. The default setting for the theft prevention function Time lock (4-1-2) on Automower is active. The function requires the PIN code to be stated each time the main switch is moved to the ON position when this is not done correctly the mower will stop mowing after the set number of days and will not start again until the correct PIN code has been entered. The function can be deactivated or changed as required. For more information about Time lock (4-1-2), see page 58. 4.

Close the cover. 3012-408 The message Starting is shown on the display. 5 beeps are heard over 2 seconds when the blade disc starts. 4.4 Stopping Automower™ 1. Press the STOP button. Automower stops, the blade motor stops and the control panel cover opens.



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3012-388 38 - English 4. USE 4.5 Restart Restart within 20 seconds 1.

Close the control panel cover. Automower starts automatically. 3012-389 Restart after more than 20 seconds If more than 20 seconds has elapsed since the last time the STOP button or the keypad was pressed it is not possible to start Automower by just closing the cover. To start: 1. 2.

Press the YES button. Close the control panel cover. 3012-402 4.6 Switching off AutomowerTM 1. 2.

Press the STOP button. Set the main switch to the OFF position. Always switch off Automower using the main switch if you intend to perform maintenance or move the mower outside of the working area. 3012-409 English - 39 4. USE 4.7 Adjusting the cutting height The cutting height can be varied from MIN (2 cm) to MAX (6 cm). If the grass is long it is appropriate to let Automower start mowing at the MAX cutting height. Once the grass is shorter, you can gradually lower the cutting height. To adjust the cutting height: 1. 2.

Press the STOP button to stop the mower. Open the cutting height adjustment cover: Press down the catch button and then open the cover. 3012-698 3012-391 3. Turn the knob to the required position. The selected position is the marking on the knob that aligns with the arrow on the body. · Turn clockwise to raise the cutting height. · Turn anticlockwise to lower the cutting height. 3012-253 4. Close the cover. Ensure that the catch button locks.

40 - English 5. CONTROL PANEL 5. Control panel All forms of commands and settings for Husqvarna AutomowerTM are made via the control panel. All functions are accessed via a number of menus. 3012-694 The control panel consists of a display and a keypad.

All information is shown on the display and all input is done using the buttons. Main menu Commands Timer Garden Settings 3012-680 The main page shows the main menu, cursor, clock, selected operating mode, number of mowing hours, clock icon, program selection and battery status. The main menu is the uppermost level in the entire menu structure. The cursor shows which menu has been selected when the YES button is pressed. The clock shows the current time.

The text AUTO or MAN shows which operating mode has been selected. The number of operating hours indicates the number of hours since the day of manufacture that Automower has been in operation. The time that Automower has spent mowing or looking for the charging station is counted as operating time. The clock icon shows when Automower should be or is switched off by the timer, i.e. stands in the charging station or is on its way to the charging station to switch off. The program icon shows when one of the programs under the buttons A, B or C is selected. The battery status shows the remaining battery charge. Main menu Commands Timer Garden Settings 3012-679 . . . English - 41 5. CONTROL PANEL The keypad consists of five groups of buttons: Shortcuts, program, selection, numbers and the main switch.

Main menu Commands Timer Garden Settings 3012-416 5.1 Shortcuts 1. Home: · Sends the mower to the charging station. Where it stays until the button is pressed again. The house icon is lit on the right-hand side of the display when the button is pressed. When the battery is fully charged the mower will remain in the charging station and show the message Waiting. When the Test IN (3-2-4) function (see page 55) is selected, Automower will, once it reaches the charging station, remain there until the Home button is pressed again. · Move the cursor in the menu structure back to the main page. 2. Operating mode: The selected operating mode is shown on the right-hand side of the display as AUTO respective MAN.

Press the button to choose between: · AUTO, the normal automatic operating mode where Automower mows and charges continuously. · MAN. If you select MAN and close the control panel cover when Automower is on the lawn, it will mow until the battery is discharged. It will then stop and show the message "Need manual charging". The mower must then be moved manually to the charging station and then started manually after charging.

If you select MAN and close the control panel cover when Automower is in the charging station the mower will charge completely, reverse 20 centimetres and stop. The MAN operating mode must be used when mowing secondary areas. Automower will never start to search for the charging station but continues to mow until the battery is discharged. 1 2 3012-404 42 - English 5. CONTROL PANEL 5.

2 Programs 3. 4. 5. A B C 4 3 Under the program buttons you can save sets of different settings, to reuse or to simplify the use of Automower in several gardens. Under respective buttons there are some preset settings. You can choose to use these or change them. · To change settings: Make the required settings. Save by holding down the selected button for 2 seconds, until two beeps are heard close together. If, for example, button A is pressed the message Program A changed will be shown for 2 seconds on the display. Use the saved information by quickly pressing the required button.

If, for example, button A is pressed the question Use program A? will appear on the display. If YES is pressed, the Program A will be selected. The letter A is then shown on the right-hand side of the display to indicate which program is selected. 5 3012-405 · 5.3 Select 6. Cancel: · Press to go back one step in the menu structure, or to interrupt an ongoing input. 7. YES: · Press to confirm an entry or selection. · Press to start the mower if more than 20 seconds has elapsed since you last pressed a button and you want to close the control panel cover. 8.

Arrow up and arrow down: Press any of the arrow buttons to move the cursor between menus or different selections. 6 7 8 3012-406 English - 43 5.

CONTROL PANEL 5.4 Numbers 9. Used in the menu structure to enter settings, for example, PIN code, time or exit direction.

Also used to specify a number series as a shortcut to the different menus. See more about number series in Number series on page 45. 3012-407 5.5 Main switch 10. Set the main switch in the ON position to start Automower.

@@@MENU FUNCTIONS 6. @@ There are a number of submenus under each option. @@@@The second number refers to the first submenu, etc. @@@@Select the function and press YES when the cursor is on Yes. @@ Browse with the arrow buttons.

@@@All except the selected language and PIN code are reset. @@ Timer Garden Settings 1 1 Charge then AUTO Show latest faults 6.4 Timer (2) The lawn should not be cut too often to obtain the best mowing result. Consequently, it is important to limit the operating time using the timer function if the working area is less than the mower's working capacity. When Automower is allowed to mow too much, the lawn may appear flattened.



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Besides, the mower is subjected to unnecessary wear. The timer function is also an ideal means to control during which periods Automower should not mow, for example, when the children are playing in the garden. When you set the timer, assume that Automower mows about 125 m² per hour (75 m² for 220 AC). · Timer override (2-1) to temporarily disconnect the timer function. Commands Timer Garden Settings 2 Timer override Day timer Weekend timer Week timer 2- · Day timer (2-2) to set the start and stop times. · Weekend timer (2-3) to set other start and stop times for the days Friday - Sunday. · Week timer (2-4) to select which days of the week Automower should mow. English - 47 6. MENU FUNCTIONS Timer override (2-1) If you set the timer on your Automower, you can use this function to temporarily abandon the settings. · YES (2-1-1) Move the cursor to YES and press YES to turn off the timer function. · NO (2-1-2) Move the cursor to NO and press YES to turn on the timer function. Weekend timer Week timer 2-1 Timer override NO Day timer 2-1 YES Day timer (2-2) It is possible to set two different start and stop times for each day. Enter the required time in hours and minutes and press YES to confirm the entered time. · Reset all timers (2-2-1) To delete all set times: Select the function and press YES when the cursor is on Yes. · · · · Start time 1 (2-2-2) Stop time 1 (2-2-3) Start time 2 (2-2-4) Stop time 2 (2-2-5) Week timer 2-2 2-2 Timer override Stop time 1 Day timer Start time 2 Weekend timer Stop time 2 Reset all timers Start time 1 Weekend timer (2-3) The Weekend timer function controls the times when Automower should mow during the days, Friday - Sunday. When you do not state any times in Weekend timer, Automower will mow at the same times on these days as set for other days. · Reset all timers (2-3-1) To delete all set times: Select the function and press YES when the cursor is on Yes. · · · · Start time 1 (2-3-2) Stop time 1 (2-3-3) Start time 2 (2-3-4) Stop time 2 (2-3-5) Copy from day timer (2-3-6) Press YES when asked Copy? to transfer all times set in the Day timer. 2-3 Week timer 2-3 Copy from day timer Stop time 2 Reset all timers Timer override Day timer Weekend timer Start time 1 Stop time 1 Start time 2 48 - English 6. MENU FUNCTIONS Week timer (2-4) Use the YES button to select/deselect the days you would like Automower to mow/not mow. Automower will mow on the days prefixed by a checkmark. · · · · · Mon (2-4-1) Tue (2-4-2) Wed (2-4-3) Thu (2-4-4) Fri (2-4-5) Sat (2-4-6) Sun (2-4-7) Run all (2-4-8) The function Run all selects all the days. If you would like the mower to mow every day of the week move the cursor to Run all and press YES. Then press YES again to the question All ON? Thu Week timer 2-4 Wed Sun Run all 2-4 Timer override Day timer Mon Weekend timer Tue Sat Fri 6.5 Garden (3) From this option in the main menu you access the driving settings. · Exit angles (3-1) to set how far Automower should reverse out of the charging station before it turns and in what direction the mower should leave the charging station. · Follow loop (3-2) to guide the mower to easily reach a remote area of the garden, to make it easier to find the charging station and to determine at what distance the mower shall follow the loop. · Garden shape (3-3) to tell Automower which type of garden you have. · Advanced (3-4) to check that the loop is intact or exactly where in the lawn the wire is buried and to adjust the distance over the boundary wire that Automower shall run. For examples of garden settings, see 7. Garden example on page 63. Commands Timer Garden Settings 3 Exit angles Follow loop Garden shape Advanced 3- English - 49 6. MENU FUNCTIONS Exit angles (3-1) Normally Automower leaves the charging station in a direction within the exit sector 90°-270°, where 90° is called the Start angle and 270° is called the End angle. By setting the start and end angles, you can set the direction in which Automower is to leave the charging station. 3012-511 The mower can be set for up to two exit sectors. If the charging station is placed in a passage it may be necessary to have two exit sectors, e.g. 70° - 110° and 250° - 290°. When you use two exit sectors, you also need to state how often the mower should leave the charging station in sector 1. This is done using the Proportion first function by stating a percentage. For example, the percentage 75 % means the mower will leave the charging station in sector 1, 75 % of the time and in sector 2, 25 % of the time. · Reversing distance (3-1-1) Specify the number of centimetres you want Automower to reverse before it turns to drive out of the charging station. The default reversing distance is 60 cm. · Start angle 1 (3-1-2) Specify in degrees where you want the sector/sector 1 to start. · End angle 1 (3-1-3) Specify in degrees where you want the sector/sector 1 to end. · Start angle 2 (3-1-4) Specify in degrees where you want the sector 2 to start. · End angle 2 (3-1-5) Specify in degrees where you want the sector 2 to end. Sector 2 Sector 1 3012-519 Reversing dist. Start angle 1 End angle 1 Start angle 2 End angle 2 Proportion first 3-13-1 Exit angles Follow loop Garden shape Advanced 50 - English 6. MENU FUNCTIONS · Proportion first (3-1-6) When you use two exit sectors: Specify a percentage to define on how many occasions Automower should leave the charging station in sector 1. To test the settings in Exit angles: State the value 100 % for Proportion first when sector 1 is to be tested. State the value 0 % for Proportion first when sector 2 is to be tested. Place Automower in the charging station and select the Test OUT (3-2-5) function. The mower will now leave the charging station directly according to the settings under Exit angles. Reset the Proportion first value when testing is finished. For more information about Test OUT (3-2-5), see page 55. Follow loop (3-2) These functions in this sub-menu are for situations when the mower needs to be guided to reach remote areas, to find the charging station more easily, and to determine at what distance the mower shall follow the loop. You will also find test functions here to see how different charge exit settings work and how the mower finds its way into the charging station. Follow loop in Corridor width Test IN Test OUT 3-23-2 Exit angles Follow loop Garden shape Advanced · Follow loop out (3-2-1) This function means that Automower can be set to follow the boundary wire or a guide wire away from the charging station to reach a more remote area of the garden. This function is very useful in gardens where the front and back are joined by a passage where the charging station cannot be placed.



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When this function is activated Automower will follow the boundary wire or guide wire away from the charging station in the set direction. It will start mowing when it reaches the area. 3012-520 English - 51 6. MENU FUNCTIONS Up to five remote areas can be activated: Area 1, Area 2, Area 3, Area 4 and Area 5 (only three areas on 220 AC). Three values need to be stated to activate an area: Area 1 Area 2 Area 3 Area 4 Area 5 Follow loop out Follow loop in Corridor width Test IN Test OUT · Direction Specify to the right, left, guide 1 or guide 2 depending on which direction the area lies from the charging station.

The direction is set looking from the charging station in the approach direction of the mower. 3-2-1 Direction Distance Proportion Area 1 Area 2 Area 3
When a guide wire is installed the direction can be specified as the guide wire. The mower will now follow the selected guide wire instead of the boundary wire, (only guide 1 is available on 220 AC). · Distance Specify the number of metres along the boundary wire or guide wire from the charging station to the place in the remote area where the mower shall start mowing. Area 4 Area 5 Right Left Guide 1 Guide 2 Direction Distance Proportion Tip! Use the Test OUT (3-2-5) function (see page 55) to find out how far it is to the remote area.

The distance, stated in metres, will appear on the mower display. · Proportion Specify a value for how often of the occasions Automower leaves the charging station it should follow the loop out to the remote area. For example the value 20 % means that in 20 % of the occasions Automower leaves the charging station, it does it in the direction to the remote area. In the remaining 80 % of the occasions the mower leaves the charging station according to the setting made for its function Exit angles (3-1). If a value of 20 % is specified for Area 1 and 10 % for Area 2, the remaining 70 % is allocated to the selection under Exit angles (3-1).

52 - English 6. MENU FUNCTIONS · Follow loop in (3-2-2) This function is used to control how Automower searches for the charging station. Automower always starts the search for the charging station in an irregular search method. In some gardens this is not sufficient for the mower to quickly find the charging station. The search can then be optimised using the Follow loop in function.

When the mower still can not find the charging station after a specific period of irregular searching, it also starts to search for the guide wires and after a further period also the boundary wire to follow one of them into the charging station instead. This time is stated in minutes, and delays searching for guide 1, guide 2 and the boundary wire. The delay time can be adapted to the shape of the garden in the Follow loop in function. Automower has a default delay setting of 7 minutes for guide 1 and guide 2 and 11 minutes for the boundary wire. A delay of 99 minutes means that the function is deactivated. If both search methods are to be activated, it is possible for example to set 5 minutes for Guide 1 delay and Guide 2 delay and 9 minutes for Boundary delay. Automower then searches irregularly for 5 minutes and then searches for the guide wires for 4 minutes. If by this time it has not found one of the guide wires, the mower will now search for both the boundary wire and guide wires. If it is not suitable in the installation to follow the boundary wire, 99 minutes should be specified as the delay for the boundary wire. It is of course possible to specify the same delay time for both the guide wires and the boundary wire, e.

g. 5 minutes. Automower then searches irregularly for 5 minutes and when it does not find the charging station, it continues to search either by following the guide wires or the boundary wire, depending on which one it reaches first. Different delay times can also be chosen for guide 1 and guide 2. The mower does not change the search method: If the mower starts to follow the boundary wire it will not switch to follow a guide wire. (Automower 220 AC only has guide 1)

Follow loop out Boundary delay Follow loop in Guide 1 delay Corridor width Guide 2 delay Test IN Test OUT 3-2-2 Exit angles Follow loop Garden shape Advanced 3-2 Test OUT 3-2-2 Follow loop out Follow loop in Corridor width Test IN English - 53 6. MENU FUNCTIONS · Corridor width (3-2-3) The Corridor width setting defines the distances from the mower's path to the boundary wire or the guide wire when following these to/from the charging station. The area beside the wires used by the mower is called the Corridor. A low corridor width value represents a narrow corridor while a high value represents a wide corridor. With a narrow corridor Automower always runs close to the boundary wire respective guide wire.

With a wide corridor Automower varies how it runs, i.e. close to and further from the boundary wire respective guide wire. Corridor width is a relative distance and is stated on a scale from 0 to 20. The lower the Corridor width value the closer Automower follows the boundary wire and/or guide wire.

Different corridor widths can be set for the boundary wire, guide 1 and on guide 2. The default setting on Automower is set to a value of 10 for both the boundary wire and guide wires. The higher the stated Corridor width value, the less risk there is of tracks forming. However, a high corridor value means that Automower may find it difficult to enter passages. A garden with large open areas should have a wide Corridor, i.

e. a high Corridor width value. A garden with passages should have a narrow Corridor, i.e. a low value for the Corridor width. When the value is set to 0 for the Corridor width, Automower will run along the boundary wire, which means it will run with half the mower inside the loop and half the mower outside. As there are often flower beds, hedges and walls along with the boundary wire Corridor width 0 is not normally recommended. Should you still like to state this value, the boundary wire must lay 40 cm from solid objects instead of the normal 35 cm. IMPORTANT INFORMATION The distance at which the mower follows the boundary wire varies depending on how the working area appears. You should perform some tests to find the highest possible Corridor width.

Use the Test IN (3-2-4) function to try different values. Follow loop out Follow loop in Boundary corridor Corridor width Guide 1 corridor Test IN Guide 2 corridor Test OUT 3-2-3 Corridor 3012-496 3012-459 54 - English 6. MENU FUNCTIONS · Test IN (3-2-4) The Test IN (3-2-4) function is used to test how Automower finds its way into the charging station. Follow loop out Follow loop in Corridor width Test IN Test OUT 3-2-4 When the function is selected the mower will immediately follow the boundary wire, guide 1 or guide 2, depending on which one it finds first, in to the charging station. If there is a passage and the mower can not run through it, the Corridor width value is set too high.



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