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Automower 105 manual

1 2 Table of contents 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 1 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 4 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 5 5 5 9 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 1 HUSQVARNA 105 HUSQVARNA DIRECTIVES 105,105.INDD 2,105,. INDD 3 INDICATOR 1. Introduction and Security Introduction Symbols displayed in the product Symbols in the instruction manual Safety instructions Presentation details Contents of the box Tasks Preparation of installation Installation of the charging station Installation of the battery Installation of the delimiter cable Connection of the delimiter cable installation wizard Install check First start and calibration Coupling test in the charging station Use charging of a discharged battery Use of the timer Stop disabling Setting Cutting height control panel selecting the function of multiple buttons selection numbers main menu menu functions menu timer structure installation garden security settings examples storage maintenance during the winter technical storage service after winter cleaning transfer and transport in case of electric storm Blades battery detection message detection station light symptoms finding breaks in the loop cable technical data conditions Environmental declaration of conformity ce declaration of conformity , 105,ES.indd 4 NOTE Serial serial: PIN code: Distributor: Merchant phone number : In the unlikely event that the lawnmower is stolen, it is important to inform the dealer. Enter the serial number of the lawnmower so that it can be registered as stolen in Husqvarna AB's central systems. The serial number of the product consists of nine digits and is indicated on the product plate and on the packaging of the Spanish ,105,ES.indd 5 1. Import and Security 1.1 Import 1. Introduction and safety Thank you for choosing a product of exceptional quality. To get the best results from Husqvarna's reaper robot, you must first know how it works. This instruction manual contains important information about the installation and use of the lawnmower robot. In addition to this user manual, there is more information on the autompower website: You will find more help materials and guidance for its use. It should be noted that the operator is responsible for accidents or risks occurring to other persons or their property. Husqvarna AB is constantly working to improve its products and therefore reserves the right to make changes in construction, design and operation Notice. In the instruction manual you will find the following system to simplify its use: Italicized text is the text that appears on the lawnmower robot screen or is a reference to another part of the user manual. Bold written words represent buttons on the lawn mower's keyboard. Words written in SHIFT and italics refer to the position of the main switch and the various functions available in the mower robot. IMPORTANT INFORMATION Read the instruction manual carefully and make sure you understand its contents before using the mower robot. Keep the instruction manual in a safe place for future reference Spanish,105,EN.indd 6 1. INTRODUCTION AND SAFETY IMPORTANT INFORMATION This device should not be used by persons (including children) with reduced physical, sensory or mental abilities, or lack of experience and knowledge, unless they do so with supervision or receive instructions on the use of the device by a person responsible for their safety. Children should be monitored to make sure they are not playing with the device. Children over the age of eight and people with reduced physical, mental or sensory abilities, or without the necessary experience and knowledge, may use this device if they are supervised or have received instructions on the safe use of the device and understand the risks that exist. Children should not play with the device. Children should not clean or maintain the user without supervision. WARNING The robot mower can be dangerous if used incorrectly. WARNING Never use the lawnmower robot when there are people, especially children, or pets in the cutting area. 6 - Spanish ,105,ES.indd 7 1. Introduction and safety 1.2 Symbols displayed in the product You can find these symbols in the robot lawnmower. Study them carefully. Please read the instruction manual carefully and make sure you understand its contents before using the lawnmower robot. The warnings and safety instructions in this instruction manual should be strictly followed for the use of the robot mower safely and effectively. The reaper robot can only start when the main switch is in position 1 and the correct PIN code has been entered. Select the position 0 of the main switch before performing any inspection or maintenance work. Stay at a safe distance from the robot mower during operation. Keep your hands and feet away from rotating blades Never move your hands or feet closer or place them under the robot mower's body when it works. Do not place on top of the robot mower This product ec directives Noise emissions to the environment. Emissions Emissions the products are referred to in Chapter 10 technical data and on the assessment plate This product may not be discarded with normal household waste at the end of its useful life. Make sure that the product is recycled in accordance with local regulations Never use high pressure cleaning equipment or running water to clean the Spanish lawnmower robot (105,ES.indd 8 1. Introduction and safety Low-voltage cable should not be shortened, extended or broken. Do not use a lawnmower near the low-voltage cable. Be careful when cutting the edges where symbol cables are placed in the instruction manual You can find these symbols in the instruction manual. Study them carefully. Select position 0 of the main switch before performing any inspection or maintenance Always wear protective gloves when working under the mower robot Never use high pressure cleaning equipment or running water to clean the mower robot A warning box indicates that there is a risk of injury, especially if instructions are not followed. WARNING TEXT An information box warns of the risk of property damage, especially if instructions are not followed. The check box is also used when there is a risk of error on the part of the user. IMPORTANT INFORMATION Text 8 - Spanish, 105,ES.indd 9 1. Introduction and Safety 1.4 Safety Instructions Use This lawn mower robot is designed to cut lawns on level and outdoor surfaces. It can only be used with equipment recommended by the manufacturer. All other uses are insufficient. The manufacturer's operating, maintenance and repair instructions must be followed accurately. Use HOME mode or turn off the main switch of the mower robot when there is someone, especially children, or animals in the cutting area. If there are people or pets in the cutting area, it is recommended to schedule the lawnmower for use during hours when the area is free of humans, for example, during the night. See 6.3 Timer. This reaper robot can only be operated, maintained and repaired by those who know perfectly their safety rules and special features. Please read the instruction manual carefully and make sure you understand its contents before using the lawnmower robot. The original design of the reaper robot may not be modified. All modifications will be made at your own risk. Check that there are no stones, branches, tools, toys, or other objects on the lawn that can damage the blades and cause the lawnmower to stop. Start the lawnmower robot by following the When the main switch is in position 1, be sure to keep your hands and feet away from the Rotating. Never insert your hands or feet under the body of the robot mower. Never lift or move the mower robot when the main switch is in position 1. Don't let anyone use the lawn mower without knowing how it works or acts. The lawnmower robot can never be allowed to collide with living humans or other creatures. If a person or other living being is in the path of the mower, the machine must stop immediately. See 4.5 Stop. Do not place objects above the mower robot or the Spanish charging station (105,ES.indd 10 1. Introduction and safety Do not allow the mower robot to operate with the defective cutting disc or body. The mower robot can only be started when the main switch is in position 1 and the correct PIN code has been entered. , especially if the lawn mower robot is used indoors. Full compatibility between the reaper robot and other wireless systems, such as remote controls, radio transmitters, magnetic loops, electric fences buried in animals or the like, is not guaranteed. Metal objects present on the ground (e.g. reinforced concrete or nets against pipes) can be an obstacle. Metal objects can cause loop signal interference and cause a Spanish stop of 105,ES.indd 11 1. Import and safety transport The original packaging must be used to transport the robot mower over long distances. To safely move to and from the workplace: 1. Press the STOP button to stop the lawnmower robot. If the average or high level of security is selected (see 6.5 Security on page 52), you must enter the PIN code. The PIN code contains four digits and is selected when you start the robot mower for the first time. See 3.8 First start and calibration on the page Place the main switch in the Move the robot mower position through the handle on the back under the mower robot. Move the mower robot with the cutting disc away from the body IMPORTANT INFORMATION Do not lift the mower robot when stationed at the charging station. This could damage the charging station and/or lawnmower robot. Open the cover and the robot mower from the charging station before lifting it. Lift. WARNING When turning the lawnmower robot, the main switch should always be in position 0. The main switch must be in position 0 when completing any work under the robot mower, such as cleaning and replacing the blades. IMPORTANT INFORMATION Never use high pressure cleaning equipment or running water to clean the lawnmower robot. Never use solvents for cleaning. Inspect the mower robot every week and replace any damaged or damaged parts. Make sure that neither the blades nor the cutting disc are damaged. Also check that the blades can be rotated freely. Replace all blades and screws at the same time, if necessary, so that the rotating parts remain balanced. See 8.7 Blades on page 64. Spanish ,105,ES.indd 12 2. Presentation 2. Presentation This chapter contains important information to consider when planning your installation. Husqvarna's reaper robot installation includes four main components: A reaper robot basically operates according to a random pattern. The reaper robot has a battery without maintenance. The charging station to which the robot mower returns when the battery charge level is too low The charging station has three functions: Send control signals along the delimiter cable. Send control signals along the driver cable so that the reaper robot can find the charging station. Charge the battery mower robot. A power supply connected between a V-socket and the charging station. The power supply is connected to the power socket and charging station with a low-voltage cable of 10 m length. A longer low-voltage cable is available as an optional accessory. Contact your dealer for more information. The appearance of the power supply may vary depending on the market. Loop cable, arranged around the working area of the robot mower. The loop cable should be placed around the edges of the lawn, and objects and plants, with which the robot mower should not collide. The loop cable is used for both the cable delimiter and the driver cable. The maximum allowed length of the loop cable is 400 m IMPORTANT INFORMATION The loop cable for perimeter, stakes, loop cable socket and loop cable connectors are purchased in a separate installation kit. Always use genuine spare parts and accessories 12 - Spanish, 105,ES.indd 13 2. Presentation 2.1 Items The numbers in the picture represent: 1. Body 2. Screen cover, keyboard and cutting height adjustment 3. Button to open deck 4. Contact plates 5. LEDs to control the operation of the charging station, the delimiter cable and the driver cable 6. Charging station 7. Carry handle 8. Battery cover 9. Cutting disc 10. Protective disc 11. Frame box with electronic system, battery and engines 12. Main switch 13. Rear wheel 14. Charging plate 15. Keyboard 16. Show 17. Loop cable for loop and guide cable delimitation* 18. Connector to connect the loop cable to the charging station* 19. Supports* 20. Pair for loop cable* 21. Screws to secure the charging station 22. Additional blades 23. User manual and quick guide 24. Galga for easy installation of the delimiter cable (the meter must be separated from the box) 25. Power supply (the appearance of the power supply may vary depending on the market) 26. Low-voltage cable 27. Alarm label 28. Cable indicators 29. Feature panel * Included in installation kit. is not included in the case of purchase of the lawnmower robot. Spanish ,105,ES.indd 14 2.2 Box Contents 2. Presentation The Auto Machine box includes the following. Automower 105 Automatic Lawnmower Charging Station Power Supply Low Voltage Cable Charging Screws Allen Key Meter Cable Marks User Manual and Quick Guide Additional Blades Alarm Label 3 units 9 units 14 - Spanish, 105,ES.indd 15 2. Presentation 2.3 Operating capacity The robot mower is recommended to cover spaces up to 600 m2. The size of the surface that the robot mower can cut depends essentially on the condition of the blades and the type, growth and humidity of the grass. The shape of the garden is also important. If the garden consists mainly of open lawn areas, the cutting speed of the robot mower in an hour will be much higher than the speed used on several small grass surfaces separated by trees, parterres and corridors. A fully charged lawnmower robot has a range of 60 to 80 minutes, depending on battery age and turf thickness. In this case, the robot mower will load for 50 to 60 minutes. The duration of the load may vary depending on the ambient temperature, among other factors. Husqvarna's robot mower cutting technique is based on an effective energy-saving principle. Unlike standard mower machines, the lawnmower mower robot cuts the grass instead of ripping it off. For best results, we recommend that you program the lawnmower robot to cut mainly in dry weather. The robot mower can also cut into the rain, however, wet grass can easily stick to the mower robot and increase the risk of snevering it in steep The blades must be in excellent condition to get the best cutting results. To keep the blades sharp for as long as possible, it is important to keep the lawn free of branches, small stones and other objects. Change the blades periodically for best results when cutting. It is very easy to change the blades. See 8.7 Blades on Spanish page ,105,EN.indd 16 2. Presentation Working Method The lawnmower robot automatically mows the lawn. It constantly alternates between cutting and loading. Lawn mower robot starts charging station when battery charge is too low. Lawn mower robot does not mow lawn while searching for charging station. When the reaper robot needs the charging station, it first randomly searches for the driver cable. Then follow the driver cable for the charging station, Turn right in front of the station and enter this inverse once the battery is fully charged, the lawnmower robot leaves the charging station in a randomly selected direction within the output area from 90 to 270o. To ensure a uniform cut, even in inaccessible garden areas, there are several manual settings that determine the conditions under which the lawnmower robot must leave the charging station. See 6.4 Installation. When the reaper robot encounters an obstacle, it reverses and selects a new direction Two sensors, located on the front and back of the reaper robot, perceive when approaching a delimiter cable. The reaper robot moves no more than 28 cm beyond the cable before turning the STOP button, located above the reaper robot, is mainly used to stop it when it is in operation. Pressing the STOP button opens a cover behind which a control panel is located. The STOP button remains pressed until the cover is closed again, acting as well as the Spanish start lock (105,ES.indd 17 2. Presentation The control panel at the top of the mower robot is where you can modify all the settings of the lawnmower robot. , a configuration sequence will begin that includes a language selection, time format, date format, and four-digit PIN code, as well as date and time setting. See 3.8 First start and calibration on page 35. The selected PIN must be entered from now on each time the main switch is set to 1. For more information about theft protection, see 6.5 Security on the Motion Pattern page The movement pattern of the reaper robot is random and is determined by the same device. Depends on the appearance of the lawn. The lawnmower is not always in a straight line and never repeats the same pattern of movements. With this cutting system, the turf is cut with great uniformity without straight cutting lines of the robot mower Position of the charging station The robot lawnmower moves in a random pattern until it reaches the guide cable. The reaper robot then follows the driver cable to the charging station. The driver cable is a cable that ranges from the charging station to, for example, a remote part of the work area or through a narrow corridor and then connects to the delimiter loop. For more information, see 3.6 Installation of the Spanish driver cable ,105,EN.indd 18 3. Installation 3. Installation This chapter describes how to install the Husqvarna lawnmower robot. Before continuing with the installation, read chapter 2 above. Presentation. Also read the full chapter before you start the installation. The installation directly affects the proper operation of the reaper robot. It is important to schedule the installation well. The design is simplified by sketching the workspace in which it includes all obstacles. This makes it easier to determine the ideal positions of the charging station, the delimiter cable and the driver cable. Draw the sketch where the clipping cable and guide cable should be placed. In Chapter 7 Garden Examples, there are many examples of plants. Also visit for other descriptions and more installation tips. 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 delimiter cable 3.5 Connecting the delimiter cable 3.6 Installation of the driver cable 3.7 Control of the installation 3.8 First start and calibration 3.9 Test coupling at the charging station The charging station, the delimiter cable and the driver cable must be connected to perform a full start. 3.1 Preparations 1. If the lawn in the work area is longer than 10 cm, cut it using a standard lawn mower. Take the weed later. 2. Read in detail all the steps before installation. 3. Check that all parts have been included for installation. Numbers in parentheses refer to the image of items 2.1 Items. Robot engine room charging station (6) Loop cable for delimitation of perimeter and driver cable (17) Power supply (25) Spanish, 105,ES.indd 19 3. Installation Low voltage cable (26) Stakes (19) Connector to connect the loop cable to the charging station (18) Screws for the charging station (21) Galga (26) Cable calipers (20) During installation you will also need: Hammer or plastic hammer (to facilitate the insertion of piles into the ground). Combined pliers to cut the clipping cord and links to join them together. Pensa (to press press together). Edge cutter or straight shovel if the delimiter cable should be buried. Installation of the charging station Installation of the charging station Ideal location for the charging station Consider the following aspects when choosing the best position for mounting the charging station: Leave 3 meters of free space in front of the charging station. At least 1.5 meters of straight demarcation cable shall be extended to the right and left of the charging station. It must be close to a power outlet. The supplied low-voltage cable is 10 meters long. A flat surface to place the charging station. Water protection spray, e.g. sprinklers. Immediate protection from sunlight. If the work area has a steep slope, place it at the bottom of the area. For example, the ideal location of the charging station, see 7 Garden examples on page 56. Min 1.5 m Minimum 1.5 m Spanish ,105,ES.indd 20 3. Installation The charging station must be placed with a large free space in front of it (at least 3 meters). It must also be placed in the center of the work area to make it easier for the reaper robot to reach all parts of it. Do not place the charging station in confined spaces in the workplace, There must be a

delimiter cable at least 1.5 metres long that extends to the right and left of the charging station. The cable must be positioned straight and outwards from the rear end of the charging station. If any other position is selected, the reaper robot can go sideways to the charging station and have difficulty connecting. Minimum 1.5 m min. 1.5 m Do not place the charging station at a corner of the workplace The charging station must be placed on a fully flat surface. The front end of the charging station shall be not more than 3 cm higher than the rear end. The front end of the charging station should never be at a lower height than the rear end. Max. 3 cm The charging station must not be installed so that the Spanish motherboard ,105,ES.indd 21 3 can bend. Installation If the installation is performed in a work area with a steep slope (for example, around a house on a hill), the charging station should be placed at the bottom of the slope of the area. In this way, it is easier for the reaper robot to follow the driver cable for the charging station The charging station should not be placed on an island, as this limits the optimal positioning of the driver cable. If it is necessary to install the charging station on an island, the guide cable must also be connected to the island. Look at the picture. For more information about islands, see Chapter 3.4 Installation of the delimiter cable connecting the source Please note the following when designing the power supply position: Near the charging station Rain protection Direct protection of sunlight If the power supply is connected to an external socket, the socket must be suitable for external use The power supply's low-voltage cable is 10 meters long and cannot be shortened or extended. A longer low-voltage cable is available as an optional accessory. Contact your dealer for more information. It is forbidden to connect the power supply directly to the charging station. The low-voltage cable should always be used. IMPORTANT INFORMATION The low-voltage cable must not be shortened or extended in accordance with any Spanish concept ,105,ES.indd 22 3. Installation It is possible to let the low-voltage cable cross the workspace. The low-voltage cable must be fixed to the ground or buried and the cutting height must be adjusted so that the blades of the cutting disc never come into contact with it. Make sure that the low-voltage cable is mounted all over the floor and is fastened with fasteners. The cable must be fastened to the ground so that it is not cut before the grass rises above the low-voltage cable should never be collected on a roll or under the base plate of the charging station, as this may affect signals from the charging station. The power supply must be placed where it is well ventilated and not exposed to direct sunlight. The power supply must be placed under a roof. It is recommended to use a ground switch when plugging in the power supply Never place the power supply at a height where it is at risk of sinking into water (at a minimum distance of 30 cm from the ground). The power supply cannot be placed on the floor. Never plug the power supply if the plug or cable is damaged. Damaged or recycled cables increase the risk of electric shock. Min. 30cm/12 IMPORTANT INFORMATION The low-voltage cable should not be shortened or extended under any important information concepts Place the low voltage cable so that the cutting disc blades never come into contact with it. IMPORTANT INFORMATION Use the plug to disconnect the charging station, for example, before cleaning or repairing the Spanish delimiter cable.indd 23 3 23 3. Installation and connection of the charging station 1. Place the charging station in an appropriate position. 2. Connect the low-voltage cable to the charging station. 3. Connect the power cord to a V socket. 4. on the ground with the screws supplied. Make sure the screws are securely fastened to the ground IMPORTANT INFORMATION No further holes are allowed on the motherboard. Only existing holes can be used to secure the motherboard to the ground IMPORTANT INFORMATION Do not press or walk on the base plate of the charging station. 3.3 Charging the battery Once the charging station is connected, the robot mower can be charged. Set the main switch to position 1. Place the mower robot in the charging station to charge the battery by placing the driver and delimiter cables. If the battery is discharged, it will take about 80 to 100 minutes to fully charge IMPORTANT INFORMATION The robot mower cannot be used until the Spanish installation is complete,105,ES.indd 24 3. Installation 3.4 Installation of the delimiter cable The delimiter cable can be installed in one of the following ways: 1. Fixing the cable to the ground with stakes. It is best to hold the delimiter cable with stakes if you want to make adjustments to the bounding loop during the first few weeks of operation. A few weeks later, the grass will have grown on the wire and will no longer be visible. Use a plastic hammer or hammer and included piles for installation. 2. Bury the cable. It is preferable to place the delimiter cable underground if you want to remove or aeer the lawn. If necessary, both methods can be combined so that one part of the delimiter cable is with piles and the rest is buried. The cable can be buried, for example, with an edge cutter or a straight shovel. Be sure to place the cut-off cable at a depth between 1 cm and 20 cm on the ground. Design of the installation of the cut-off cable The delimiter cable must be positioned so that: A closed circuit is formed around the working area of the mower robot. Only the original delimiter cable should be used. It is specially designed to withstand soil moisture, which could damage cables. The reaper robot never moves more than 15 meters away from the cable, anywhere in the work area. The total length of the delimiter cable shall not exceed 400 metres. There is an additional 20 cm cable to which the driver cable will be connected. See 3.6 Installation of the guide cable on page 31. Depending on the elements adjacent to the workplace, the clipping cable must be placed at different distances from each obstacle. The following illustration shows how to place the clipping cable around the workspace and obstacles. Use the meter provided to calculate the correct distance (see section 2.1 Items on page 13). 5 cm/2 0 cm 20 cm/8 30 cm/12 24 - Spanish ,105,ES.indd 25 3. Installation Workspace Limits a high barrier (5 cm or more), such as a wall or fence, fence, delimiter should be placed 30 cm from this barrier. This will prevent the lawn mower robot from colliding with any obstacles and reduce body wear. The lawn about 20 cm around the fixed barrier will not be cut. 30 cm/12 If the work area borders a small trench, such as a parterre or a low altitude, or a low curb (1-5 cm), the delimiter cable should be placed 20 cm inside the work area. This will prevent the wheels from entering the ditch or climbing onto the pavement. The lawn of about 12 cm will not be cut next to curbs or ditches. If the workplace is bordered by a paved path or similar to the height of the lawn (+/- 1 cm), the reaper robot may be allowed to pass slightly over. The cut-off cable should in such a case be placed 5 cm from the side of the road. All the grass next to the cobbled path cm/8 cm/2 will be cut when the workspace is separated by a paved path at the height of the lawn, the robot lawnmower can be allowed to pass over. It may be advantageous to place the cut-off cable under the cobblestones. The delimiter cable can also be placed at the intersection between cobblestones. Make sure the tiles are flat with the lawn to avoid excessive wear and tear of the mower robot. Note: The robot mower should never be used in gravel, protection or similar materials that may damage the blades. Minimum 15 cm 15 cm IMPORTANT INFORMATION If the workplace is close to canals, slopes, cliffs or public roads, the extension cable should be filled with a border or similar element. Its height must be at least 15 cm. This will prevent the reaper robot from ending up outside the Spanish workplace ,105,ES.indd 26 3. Install boundaries within the workspace Use the bounding cable to delineate areas within the work area, creating islands around obstacles that cannot withstand a conflict, such as side, bushes, and fonts. Place the cable in and around the area where it will be bounded, and return it from the same path. If stakes are used, the cable should be placed under the same bet on the return route. When the demarcation cables to and from the island are close to each other, the robot lawnmower can pass over the cable. Obstacles that can withstand a collision, such as trees and shrubs with a height greater than 15 cm, do not need to be demarcated by the delimiter cable. The reaper robot will turn around when it collides with this type of obstacle. For careful and quiet operation, it is recommended to isolate all fixed objects from the inside and around the work area. The separator cable must not be crossed on the road and back an island. Obstacles that tilt slightly, such as large stones or trees with protruding roots, must be demarcated or removed. From From In contrast, the robot mower could slip into this type of barrier and cause serious damage to the blades. Sub-zones If the workspace consists of two zones and it is difficult for the reaper robot to move from one to the other, it is recommended to create a sub-zone. Examples of this are slopes of 25% or a narrower step of 60 cm. Place the cut-off cable around the secondary zone to form an island outside the main area. The reaper robot must be moved manually between the main and secondary areas when it is necessary to cut the lawn from the secondary area. Human function should be used, as the reaper robot cannot be moved from the secondary zone to the charging station. See section 5.1 Select the function on page 42. In this mode, the lawnmower robot will never look for the charging station, but will cut the lawn until the battery runs out. When the battery runs out, the robot mower will stop and the message Needs manual charging will appear on the screen. Then place the lawnmower robot in the charging station to charge the battery. If the main workspace needs to be cut off after loading, the mode of operation must be changed to Auto before the robot mower is placed on the charging station. Corridors should be avoided when cutting long and narrow corridors and narrower areas between 1.5-2 metres. When the lawn mower robot mows lawns, it can turn down the hallway or area for some time. If that happens, the lawn will be flat. 0 cm 0 cm Secondary area Main area Spanish , 105,ES.indd 27 3. Installation earrings The cut-off cable can be placed along a slope of less than 15% 0-15 cm 100 cm The cut-off cable must not be placed along a slope greater than 15%. There is a risk that the lawn mower robot will have difficulty turning around at this point. The lawn mower robot will stop and the error message will appear outside the workplace. The risk is greatest in wet weather conditions because the wheels can slip into wet grass. However, the delimiter cable can be mounted across the slope with a gradient of more than 15% if there were any obstacles against which the mower robot could collide, such as a fence or a thick screen. The lawnmower robot can mow the lawn on slopes with a slope of up to 25 cm per metre away (25%) within the workplace. The most inclined areas shall be bounded by the delimiter cable. When a part of the workplace slope is greater than 15 cm per metre away (15%), the delimiter cable shall be placed 20 cm in a flat before the start of the slope. 15- % 15- 0-15 % 15 cm 100 cm 100 cm 100 cm >15 cm 0-15 cm % % cm 100 cm 0-25 cm Spanish, 105,ES.indd 28 3. Installation Mounting the delimiter cable To secure the delimiter cable with piles: Cut the grass too low with a lawnmower or a standard lawnmower where you are going to place the cable. This will make it easier to place the cable near the ground: the risk of the robot mower cutting the cable or destroying the cable insulation will be reduced. Be sure to place the cut-off cable near the ground and secure the piles close to each other, about 75 cm. The cable must be fastened to the ground so that it is not cut before the grass has risen above. Use a hammer to insert the stakes into the ground. Be careful when nailing the stakes and make sure the cable is not tightened. Avoid highlighted curves on the cable To place the cut-off cable underground: Be sure to place the cut-off cable at a depth between 1 cm and 20 cm on the ground. The cable can be buried, for example, with an edge cutter or a straight shovel. Use the supplied gauge as a guide to insert the delimiter cable. This will help you easily determine the correct distance between the delimiter cable and the delimiter/obstacle. The meter came out of his box. IMPORTANT INFORMATION The additional cable must not be placed in coils outside the delimiter cable. This can interrupt the lasso lawnmower robot to connect the driver cable To facilitate the connection of the driver cable to the delimiter cable, it is recommended to create a loop with approximately 20 cm of additional cut-off cable at the point at which the driver cable is later connected. It is a good idea to draw the position of the guide cable before inserting the cut-off cable. See 3.6 Installation of the driver cable on the Spanish page ,105,EN.indd 29 3. Installation How to place the delimiter cable to the charging station The delimiter cable must be aligned with the back of the charging station and extend at least 1.5 metres to the right and left of the charging station See figure. If the delimiter cable is fitted in any other way, the reaper robot may have difficulty finding the charging station. Minimum 1.5 m Min 1.5 m Trap cable connection Use an initial coupling if the clipping cable is not large enough and must be spliced. It is waterproof and offers reliable electrical connection. Place the ends of both cables in the coupler. Make sure that the cables are fully mounted on the coupling so that the straps are visible through the transparent area on the other side of the coupling. Then press the button over the coupling down. Use pliers to fully compress the coupler button. IMPORTANT INFORMATION The twisting of cables or an insulated terminal block with insulating tape are not appropriate connections. Soil moisture will cause rust terminals and after a while a broken circuit may appear Spanish ,105,ES.indd 30 3.5 Connection of the cable delimiter Connect the delimiter cable to the charging station: 3. INSTALLATION IMPORTANT INFORMATION The delimiter cable must not be crossed when connecting to the charging station. The end of the cable on the right shall be connected to the right pin of the charging station. the left cable, the left pin. 1. Insert the ends of the cable into the plug: Open the plug. Insert the cable into the plug hole. 2. Press the links with pliers. Press until you hear a click Cut the cut-off cable about 1 or 2 cm above each socket Press the connector to the contact plug, marked with AL (left) and AR (right), at the charging station. IMPORTANT INFORMATION The right connector must be connected to the right metal plug of the charging station. the end of the left cable, in the left spanish plug ,105,ES.indd 31 3. Installation 3.6 Installation of the driver cable The driver cable is a cable that ranges from the charging station to, for example, a remote part of the work area or through a narrow corridor, and then connect it to the delimiter loop. The same cable roll is used for both the bounding loop and the driver cable. The robot mower uses the guide cable to find its way back to the charging station, but also to guide the robot lawnmower to inaccessible areas of the garden. To ensure that all lawn is cut evenly, the lawn mower robot can follow the guide cable from the charging station to connect the delimiter loop guide cable and start from there. Depending on the layout of the garden, the frequency with which the reaper robot will follow the driver cable from the charging station must be adjusted. See 6.4 Installation on page 48. The reaper robot works at different distances from the driver cable to reduce the risk of road forms when the reaper robot follows the driver cable to and from the charging station. This area next to the cable used by the reaper robot is called a treadmill. The reaper robot always moves to the left side of the driver cable if you look in the direction of the charging station. This way, the corridor is to the left of the driver cable. Therefore, when installing it, it is important to leave as much free space as possible to the left of the driver cable if you look in the direction of the charging station. The driver cable may not be fitted less than 30 cm from the delimiter cable. Like the delimiter cable, the guide cable can be held with stakes or placed underground. Maximum distance At least 30 cm IMPORTANT INFORMATION It is important to leave as much as possible free space to the left of the driver cable if you look in the direction of the charging station. At least 2 m Spanish ,105,ES.indd ,105,ES.indd Installation and connection of the driver cable 1. Pass the cable through the socket at the bottom of the charger plate. 3. Installation Insert the plug into the driver cable as indicated for the delimiter cable at 3.5 Connect the cut-off cable. Connect it to the charging station contact pin marked Guide Remove at least 2 meters of cable from the front end of the panel. If the driver cable is to be placed on a treadmill: - The lawnmower robot always follows the guide cable on the same side of the cable in the direction and from the charging station. This means that the lawnmower robot always moves to the left side of the driver cable, if you look in the direction of the Spanish charging station (105,ES.indd 33 3. Installation Therefore, on the runway, the guide cable must be positioned so that the lawnmower robot has as much space as possible to operate. However, the distance between the delimiter loop and the guide cable must be at least 30 cm. Maximum distance At least 30 cm At least 2 m If it is necessary to place the guide cable at a steep slope, it is best to place the cable diagonally from the slope. 4. Place the guide cable on the edge of the bounding loop where you want to make the connection. 5. Lift the cut-off cable. Cut the delimiter cable using a pair of pliers, e.g. or 90 90o Spanish,105,ES.indd 34 3. Installation 6. Connect the guide cable to the delimiter cable using a coupler: Insert the cut-off cable into each of the coupling holes. Insert the guide cable into the central hole of the coupler. Check that the cables are fully mounted on the coupling so that the capes are visible through the transparent area on the other side of the coupler Use pliers to fully compress the coupler button. It doesn't matter which holes are used to connect each cable. 7. Hold/bury the plug in the lawn. IMPORTANT INFORMATION The operation of the driver cable varies depending on the layout of the workspace. Therefore, we recommend that you check the installation with this feature. See 6.4 Installation on the IMPORTANT INFORMATION page The driver cable should not be crossed with the delimiter cable, for example, a delimiter cable located on an island Controlling the installation To control the loop signal, observe the indicator light at the charging station. see section 9.2 charging station indicator on page 71 if you do not see a fixed green light spanish , 105.ES.indd on page 2 warranty and support this product is not displayed a one-year guarantee covering problems identified during normal use. If you misuse Bee-Bot or open the Bee-Bot this warranty will be cancelled. Most details rechargeable durable ground robot easy to use for children USER'S MANUAL Bee Bot is an award-winning programmable floor robot that has a simple and child-friendly design, which most details Warranty and support This product includes a one-year warranty covering problems detected during normal use. If you misuse Power Pods or open the drive, this warranty will be cancelled. More details Warranty and support This product includes a one-year warranty covering problems identified during normal use. If you misuse Sound Around or open the unit, this warranty will be cancelled. More details SOLAR POWER BANK CHARGER MOBIELE OPLADER OPONNE-ENERGIE CHARGER SOLAIRE CHARGER WITH SOLAR ENERGY BANK SOLARLADEGER-T PRZENO-NE SRÓD-O ZASILANIA NA ENERGI-S-ONECZN-CARREGADOR COM ACCUMULATOR More details Special Features Stylish and easy to use look. Multi-code player compatible with MP1, MP2, MP3, WMA formats. 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CONTROLS stabilize left/right More details Battery charger with LED display, 10400 mah Manual 31892 SPECIFICATIONS Capacity: 10,400 mah Battery: Lithium ions Input: 5 V DC/1.3 A (Max. 1.5 A) Output 1:5 V DC 1 For Output 2: 5 V DC 1 A More Details Bot User Manual Details Please be sure to carefully read the instructions before use and save them appropriately. 1. Introduction Thank you for buying Bot Robot components, read more details BLUETOOTH MINI MODELS: ALT-MR11-BT, ALT-MG62-BT Thank you for choosing this product. This device has been created by our professional team in accordance with the Regulations. For more details PTC ceramic stove MODEL: KPT-2000R 220-240V-50Hz 2000 Watts before using electric heating THANK YOU for purchasing our KENDAL product. We ask you to take a few minutes to familiarize yourself with more details MANUAL WORK 2268A MINI DETECTOR MULTIDIVISA 1.- Safety instructions To avoid damage to equipment and personally, please read this before first use. 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This manual contains safety instructions More details User Manual ENGLISH Swallow a thrill of We-Vibe's unique shape points in point G for deep internal stimulation The smooth surface of the PC-ABS ensures perfect stimulation of the clitoris Most details Insert Load Compatible with CatEyeSYNC Rechargeable Safety Light Installation SL-NW100 Manual Function Switch Appendix The information included in the instruction manual is subject to more user details Version HTDDDC-P02 with Bluetooth SELF-2 WHEELS INDEX 11. VERY Important Information 2. DEFINITIONS 3. GENERAL PROBLEMS 4. USE MODE 5. BATTERY 6. TECHNICAL SPECIFICATIONS More details 05_MC_4840_es.qxd:MT6830 25.10.2010 14:21 Uhr Seite 45 SECURITY ---------- Please note the following manual details ELBE ALT-41ES-BT SPEAKER BLUETOOTH STEREOPHONE User Manual: Congratulations on the purcha of the new ELBE ALT-41ES-BT Bluetooth speaker. 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This is why for more details stainless blender MODEL BA- 1720 DIRECTIVES Read this instruction manual before using Blender. 1 PARTS & PARTS A: Distributor G: Base B: Cover H: Body C: Vase More details VAREADOR ACEITUNA VAR370 USE AND MAINTENANCE MEMBER 1.- INTRODUCTION This manual contains instructions for the installation, use and maintenance of the varreadora VAR370 model. This manual More manual user details GPS receiver Bluetooth SERVICE GPS DEVICES Warning Read this before you start using Bluetooth GPS Receiver: - System Installation More Details Troubleshooting. (a) Unable to connect 1. Make sure the keyboard is within your actual working range --- 10M. 2. Make sure Bluetooth is still paired. If not More details OUTDOOR HELICOPTER AND INTERNAL SEK RC T-11 Specifications Length of fuselage: 500mm Total height: 235 mm Main rotor diameter: 490mm Weight: 438 gr Engine: Model #180 Transmission Ratio More details Mini Spy Camera QQ7 NOTE CONSIDER: Thank you for choosing our products. 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