



Solar Mower

Operator's Manual



Please read through this Operator's Manual carefully and understand its contents before using the Solar Mower.

We congratulate you in becoming a new owner of a Husqvarna Solar Mower. You have chosen a product that we hope will fulfil and even exceed the expectations you have a right to demand. Automatic lawn mowing is a new step in development, which involves a new way of thinking and behaviour, not least from the consumer himself.

The Solar Mower is in many ways a revolutionary product. It allows you to have a well-kept lawn throughout the season with a minimum of inspection and maintenance.

The document that you are now holding in your hand, the Operator's Manual, is an important part of your future interaction with the Husqvarna Solar Mower.

We know that an Operator's Manual is normally seen as boring and complicated and therefore has a tendency to be left unread. With this model it will be difficult to utilise it without this documentation. Therefore our first suggestion is:

- To read this Operator's Manual and save it for future use. In addition to the instructions normally provided in an Operator's Manual, for example, warnings, safety instructions and maintenance instructions, we also provide a comprehensive description of how the Solar Mower "thinks" and works. There are also installation instructions for different types of gardens and a simple trouble shooting chart. We hope that this will help you to gain as much as possible from your new product.

If you have any questions or thoughts not answered in this document you are always welcome to contact your dealer. We hope that you get immense enjoyment from your new Solar Mower. Good luck!

Husqvarna AB Sweden

Lars Andersson
Business Manager Automatic Lawn mowers

Please visit us on the Internet:
www.solarmower.com
www.husqvarna.com

SYMBOL EXPLANATION / LIST OF CONTENTS

Symbols on the Solar Mower



IMPORTANT!

Read through the Operator's Manual carefully before you start to use the Solar Mower.



WARNING!

This tool can be dangerous if used incorrectly. The warning and safety instructions in the Operator's Manual must be followed carefully for the tool to be used safely and efficiently.



WARNING!

Keep hands and feet away from the rotating blades. Never place your hands or feet close to or under the cutting deck's cover while the motor is running.



Never use the Solar Mower if persons, especially children, or pets are in the vicinity.

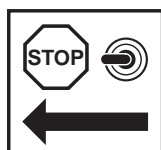


This product corresponds with applicable CE directives.



Stop the Solar Mower by folding up the rear solar panel.

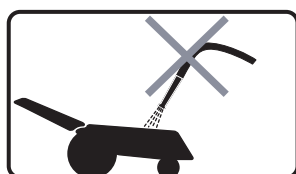
Symbols in the Operator's Manual



Inspection and/or maintenance should be carried out with the motor switched off, with the switch in the "STOP" position.



Always wear protective gloves when working with the blades or cutting disc.



Never use a high-pressure jet or even running water to clean the Solar Mower.

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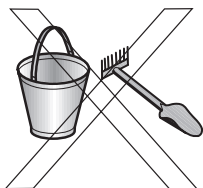
WARNING!

Under no circumstances may the original design of the Solar Mower be modified without the permission of the manufacturer. Always use genuine spare parts. Non authorised modifications and/or components can result in serious disruptions and the risk of personal injury.

SAFETY REGULATIONS

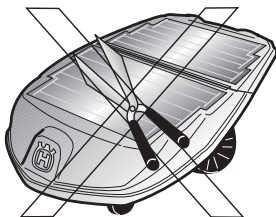
Use

- Read through the Operator's Manual carefully and understand its contents before you start to use the Solar Mower.
- Check that there are no stones, twigs, tools, toys and other objects that can damage the blades or cause the mower to stop on the lawn.
- Start the Solar Mower in accordance with the instructions. Keep your hands and feet away from the rotating blades. Never put your hands or feet under the solar panels.



- Do not stand in front of the Solar Mower when you start it. Make sure that no one else is standing in front of the Solar Mower.
- Never lift up the Solar Mower or carry it around when it is running.
- Do not allow anyone who does not know how the Solar Mower functions and behaves, especially children, to be within the working area during mowing.
- Do not let persons that do not know how the Solar Mower functions and behaves use the mower.

- Do not place objects on top of the Solar Mower. Care should be taken when handling solar panels as these are fragile. This is extremely important when the mower is turned upside down, for example, to adjust the cutting height.



- Do not allow the Solar Mower to be used with a defective cutting disc or chassis. Neither should it be used with defective blades, bolts, nuts or cables.
- Do not use the Solar Mower if the power switch does not function.
- Always switch off the Solar Mower using the power switch when it is not in use.

Moving the Solar Mower



WARNING!

Never move the Solar Mower with the rear solar panel folded down. The cutting disc could start rotating and cause injury.

Moving from or within the mowing area:

1. Fold up the rear section of the solar panel.
2. Wait until the cutting disc has come to a complete stop. The long beep after the panel has been lifted indicates that the cutting disc has stopped.
3. Enter the first digit of your personal code to prevent the theft alarm from sounding.
4. Turn off the power switch if you intend to move the Solar Mower outside its mowing area. It is not necessary to turn off the power switch otherwise.
5. Carry the folded Solar Mower by the handle.

Pack away the Solar Mower in the original packaging if transporting it over long distances.

Care



- Inspect the Solar Mower weekly and replace any damaged parts. Check carefully that the cutting disc and blades are not damaged. Change all the blades at the same time if replacement is necessary so that rotating parts are balanced, see chapter "Maintenance".
- Contact your closest dealer when changing damaged or worn parts.
- Used batteries should be returned to your dealer or to a recycling station.

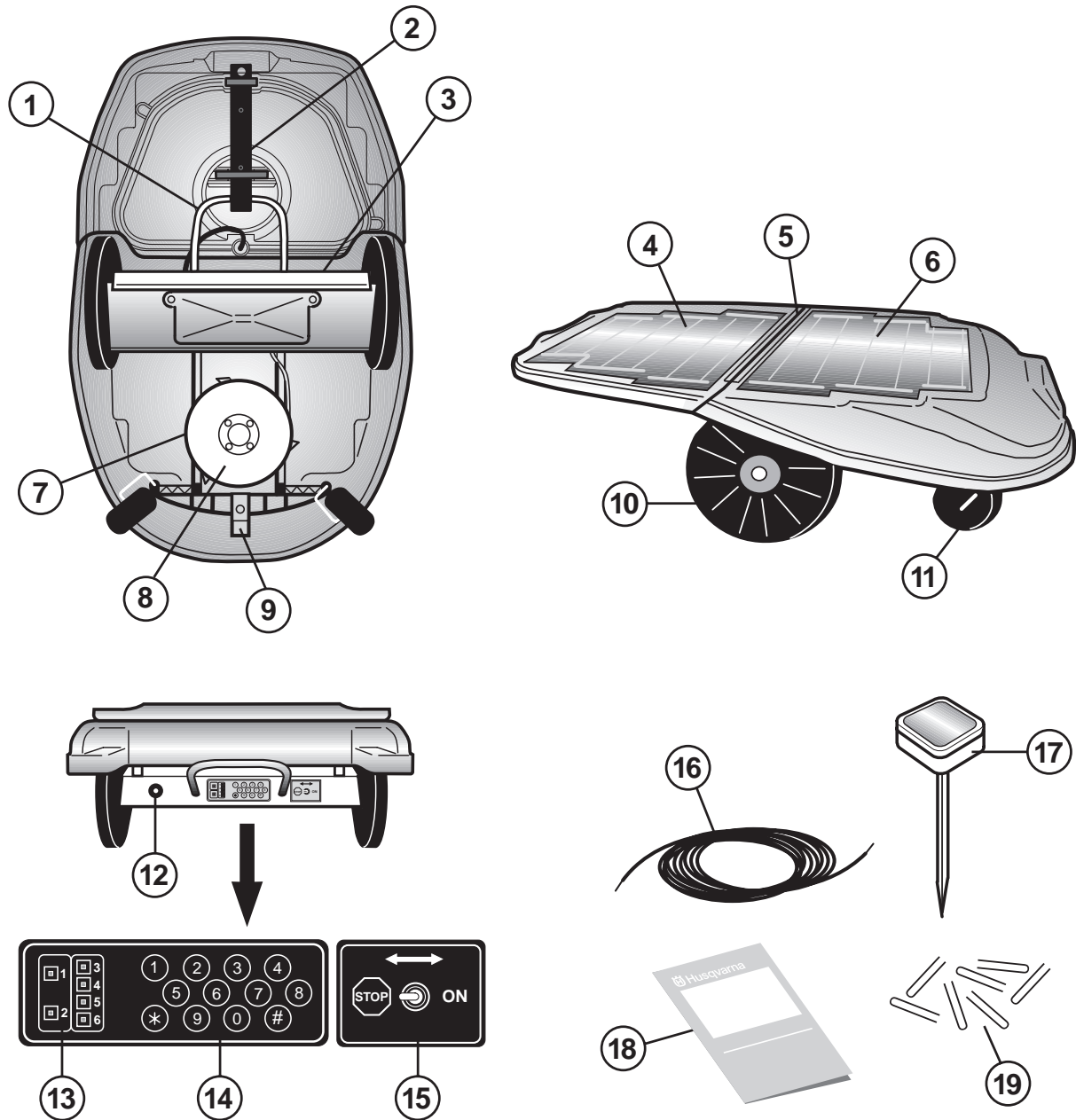


WARNING!

Before you do any work on the underside of the Solar Mower, such as cleaning, adjusting the cutting height or replacing blades, you must turn off the power switch. Always turn off the power switch before turning the machine upside down.

If the Solar Mower's alarm has been switched off it will not beep to warn you that the cutting disc is about to start (5 beeps in 5 seconds).

PARTS OF THE SOLAR MOWER



What is what?

- | | |
|--|-----------------------|
| 1. Handle and rear panel support | 11. Front wheel |
| 2. Latch | 12. Buzzer |
| 3. Box containing computer and battery | 13. LEDs |
| 4. Rear solar panel | 14. Keyboard |
| 5. Hinge | 15. Power switch |
| 6. Front solar panel | 16. Boundary wire |
| 7. Cutting disc | 17. Generator |
| 8. Protective disc | 18. Operator's Manual |
| 9. Loop sensor | 19. Staples |
| 10. Drive wheel | |

Solar Mower's working method

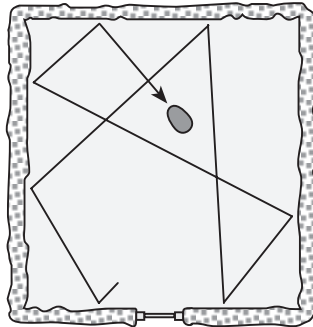
Function

The fundamental principle behind your Solar Mower is that it cuts as soon as there is sufficient daylight. A number of interconnected solar cells convert the daylight to electrical energy. When the Solar Mower is in the sun the energy is sufficient to power the mower and charge the batteries. The Solar Mower cuts continuously when it is charged.

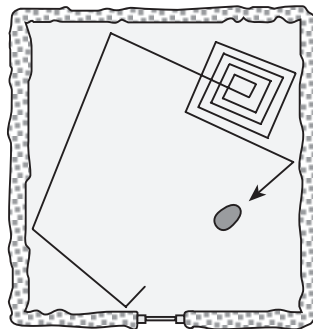
The Solar Mower is controlled by an integrated computer that consists of a circuit board and microprocessor. The computer is the Solar Mower's "brain" and handles all of its functions, commands and path selection by means of the data gathered via the keyboard, sensor, solar panels and the charging status of the batteries.

Movement pattern

It always starts its work according to the random principle, i.e. the starting path is unplanned. Each time it hits an obstacle or senses the signal from the boundary wire, the microprocessor signals a new direction. This is designed so that the Solar Mower never regularly repeats the same movement pattern.



If the Solar Mower reaches a section of grass that is longer than a previous section of grass, it can start to mow systematically. It then mows in a spiral pattern, mowing the section that has longer grass than the surrounding area. After this it returns to the random principle.



Initially the Auto Mower works for a few hours to get an idea of the average length and thickness of the grass. Only then does it start working systematically.

When the bumper on the front of the Solar Mower collides with an obstacle the Solar Mower reverses and chooses a new direction.

Significance of the weather

The Solar Mower continuously analyses the current light conditions and normally avoids shadows. As the shade moves depending on the position of the sun, the lawn mower works in the light, or sunshine for the greater part of the day.

The Solar Mower will also mow in the shade if the battery has a sufficient charge. It will then run a few metres in the shade at a time and then reverse to avoid the risk of becoming stranded in the shade. If the lawn is generally well-cut the Solar Mower will work in the shade for longer periods.

Large amounts of light (sunny weather) means that the Solar Mower charges fully before it starts to move, while small amounts of light (shade) means that it charges for a while and then moves in the hope of finding a sunny part of the lawn. If the Solar Mower systematically stops to charge in the shade, this is a sign that the battery is defective.

Technical data

Battery Solar Mower	NiMH special battery, 12 V
Battery Generator	NiMH special battery, 2.4 V
Mowing system	Cutting disc with three jointed blades
Height adjustment	Variable, 3 - 9 cm
Weight	7.5 kg
Length	110 cm
Width	66 cm
Height	28 cm
Working capacity	1200 m ² ± 20%

INSTALLATION

Installation

Read through the entire Operator's Manual before installing the generator, boundary wire and starting the Solar Mower. Save the packaging the Solar Mower came in for future transport and storage.

Consult your dealer about installation of the boundary wire and generator. If you install the boundary wire yourself it is important that the instructions below are followed carefully.

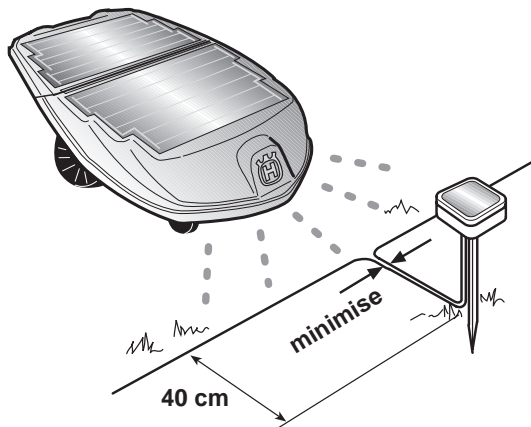
When the Solar Mower is set to work in the mowing area the grass should not be more than a couple of centimetres longer than the set cutting height. It may be necessary to mow the lawn first using a conventional lawn mower before using the Solar Mower for the first time. The Solar Mower will then prevent the grass from growing longer.

During the period the boundary wire is being laid it is appropriate to place the Solar Mower in the sun with the panels folded down and the power switch in the STOP position. In this way the Solar Mower's battery will be charged and the mower can be started quicker. Also place the generator in the sun to charge its battery.

Generator and boundary wire

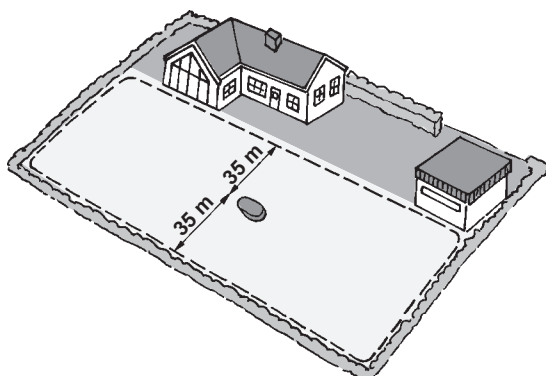
General

The purpose of the generator and the boundary wire is to delimit an area for the Solar Mower to work in. The generator sends a signal through the boundary wire that is picked up by the sensor on the Solar Mower.



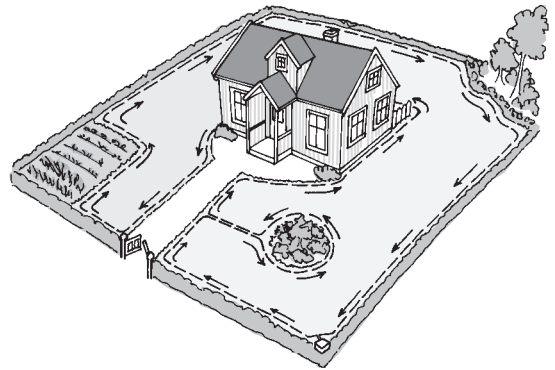
As the generator is also powered by a solar cell it is important that it is placed where it will have good access to the sun. In other words do not place it under a bush or the like.

The Solar Mower can keep an area of $1200 \text{ m}^2 \pm 20\%$ mown, depending on the shape of the area. The boundary wire can be a maximum of 500 metres. The distance between the Solar Mower and the boundary wire must not exceed 35 metres.

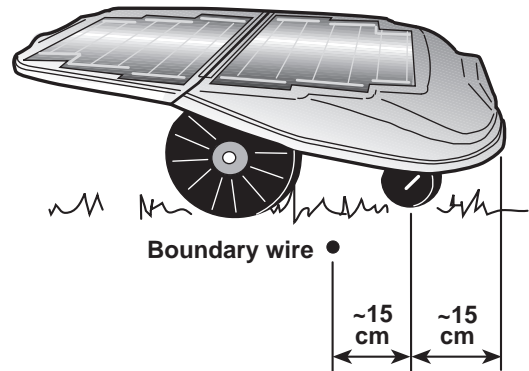


Installation of the boundary wire

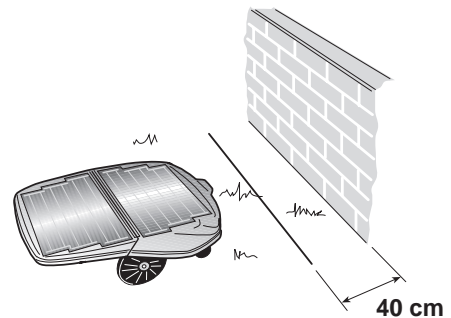
The boundary wire should be laid around the edge of the area the Solar Mower is to move within.



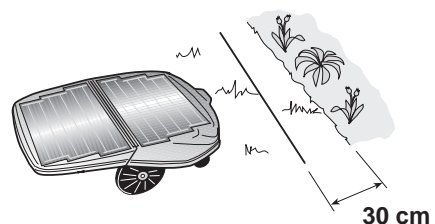
When the Solar Mower reaches the boundary it senses that it is passing the wire. It then continues for a short distance past the wire before reversing.



How far in on the lawn the boundary wire should be placed depends on what is immediately outside of the area. If a high obstacle is just outside of the area to be mown, e.g. a wall, fence or delicate flowers, the boundary wire should be laid 40 cm from the obstacle. The chassis will not then collide with the obstacle.

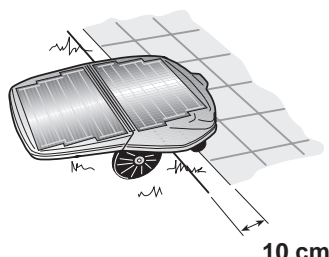


When the lawn finishes with a ditch or a small incline, e.g. edge stones (approx. 5 cm high), the boundary wire should be laid 30 cm inside the mowing area. This will guarantee that the front wheel will not drive into the ditch or up on the edge stones.

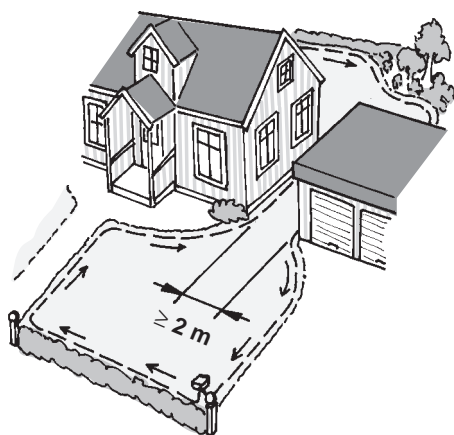


INSTALLATION

It is possible with paths that are on the same level as the lawn to allow the Solar Mower to drive a little way onto the path and thereby not leaving an uncut area. Lay the boundary wire 10 cm from the edge of the path.



Long narrow passages should be at least 2 m wide, i.e. 140 cm between the wires, to give the Solar Mower enough space to make its way through.



The Solar Mower can mow on slopes with an incline up to 15° (27 cm difference in height per metre). Steeper slopes must be delimited by the boundary wire.

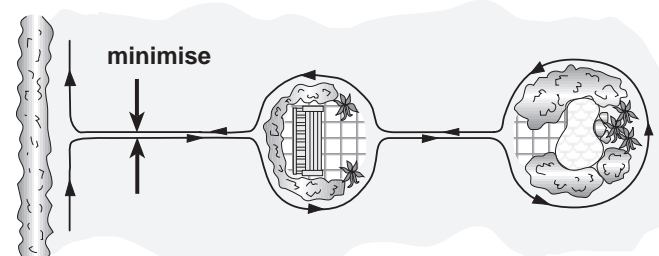
Lay the boundary wire and fasten it to the ground with staples so that there is no risk that the blades will cut through the wire. Allow the Solar Mower to work for one week, then decide whether you need to adjust the route of the wire. After a few weeks the lawn will have woven itself over the wire so that you cannot see it. The boundary wire can also be buried at a depth of 2-5 cm (maximum 20 cm).

Metallic objects can disrupt the boundary signal. Consequently the boundary wire should not be routed close to iron fences, metal manhole covers, electrical or telecom cables. In these cases it's sufficient for the wire to be routed 30 cm from this type of obstacle. However, in some cases, e.g. by electric fences, the distance may need to be greater. If the Solar Mower regularly stops at a certain point on the lawn and signals that it cannot detect the boundary wire (LED 6 remains lit) this is probably due to such a disruption.

If the wire needs to be joined this must be carried out so that the connection is waterproof. The best contact is obtained if the joint is soldered and then insulated by a shrink-tube. You can also use Husqvarna's connector, article number 535 04 43-01, which does not require soldering.

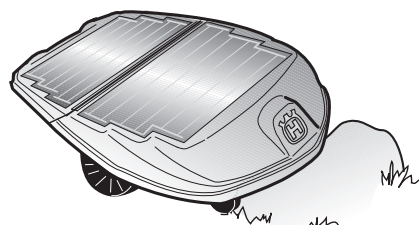
Delimiting areas within the mowing area

It's possible, if required, to delimit sections within the mowing area, for example flowerbeds, fountains, etc. Route the boundary wire out to the section, around the section and then back along the same route as the boundary wire was taken out. It is extremely important that the boundary wire is routed in the right direction around the section. The right direction means that the boundary wire must never cross itself. The same instructions also apply when the boundary wire is routed on to a section that is outside of the first delimited section. The wires should be laid right next to each other. If the wires are stapled down they should both be secured under the same staples.



If the Solar Mower's working area runs alongside water, a drive or a path, for example, the boundary wire should be supplemented by a line of posts, raised edging or a fence with a height of at least 15 cm. This is a safety measure to prevent the Solar Mower escaping from its working area if the boundary wire is installed incorrectly.

Trees, bushes and the like that can withstand the chassis driving against them do not need to be delimited by the boundary wire. The Solar Mower will reverse anyway when it hits an obstacle. However, these obstacles must be higher than the front edge of the chassis, that is, approx. 10 cm. Likewise, gently sloping obstacles, such as stones or large trees with raised roots, should be limited or removed. Otherwise the Solar Mower can glide up onto such obstacles and the blades can be damaged.



Connecting the generator

The generator should be placed at least 40 cm outside of the mowing area, otherwise the Solar Mower will collide with the generator. The boundary wire running to the generator should either be secured using staples or buried, otherwise the Solar Mower might cut through the wire. The distance between the wires leading to the generator should be kept to a minimum. If they are stapled down they should both be secured under the same staples. Strip the boundary wire at both ends and connect to the generator. You can test whether the boundary wire makes a circuit and that the generator works by using the test switch under the generator. When the switch is switched on a signal will be heard. When the signal is heard the circuit has been made and the signal has sufficient strength.

It is important that the right wire end is connected to the correct terminal. When the wire has been connected place the Solar Mower in the mowing area, switch on the power switch and enter your code, see *chapter "Start and stop"*. Fold down the rear solar panel, the Solar Mower should then signal with 5 beeps. If it then signals with three beeps per second and the LEDs indicate that the Solar Mower is outside the working area (LED 4 flashing), swap the wire connections to the generator and repeat the test.

Start and stop



WARNING!
Keep hands and feet away from the rotating blades. Never place your hands or feet close to or under the cutting deck's cover when the motor is running.



WARNING!
Read carefully through the safety regulations in this Operator's Manual before you start the Solar Mower.

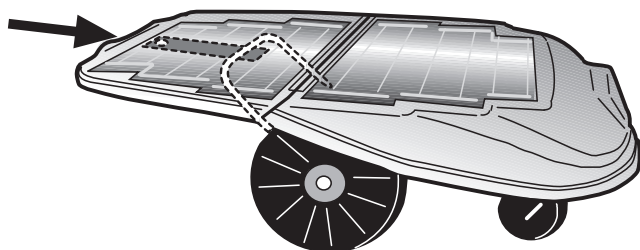
Starting the Solar Mower

1. If the Solar Mower is new or has been stored for a long time, the batteries must be charged before starting. Charge the batteries by placing the Solar Mower in daylight for about one hour with the rear solar panel folded down and the power switch off.
2. Fold up the rear solar panel, switch on the power switch and a long beep should be heard.
3. Enter your personal code, * **code #**. On delivery the code is * **0000 #**, see chapter "Settings".
4. Fold down the rear solar panel. The Solar Mower will start after approx. 10 seconds, if the battery is sufficiently charged. Otherwise it switches into charging mode (two beeps every tenth second) and starts as soon as the battery has been charged sufficiently.

Stopping the Solar Mower

- Stop the Solar Mower by folding up the rear solar panel. Enter the first digit of your personal code to switch off the theft alarm. The long beep confirms that the cutting disc has stopped. You have 6 seconds before the theft alarm starts.
- Reset the Solar Mower by folding down the rear solar panel again.
- Always switch off the power switch if you intend to carry out any maintenance on the Solar Mower or if you intend to move it outside of the mowing area.

Latch



To prevent the rear solar panel from being lifted up in strong wind the Solar Mower is fitted with a latch.

Charging the battery

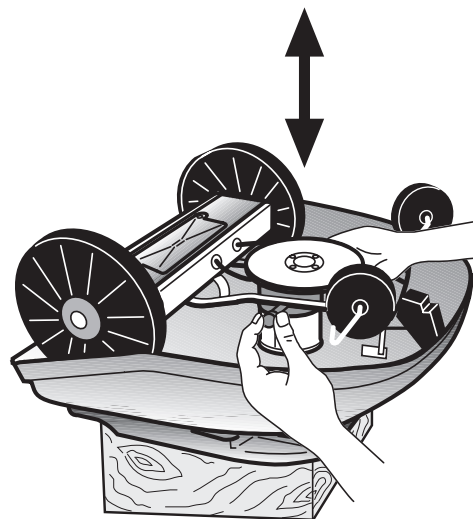
When the Solar Mower's battery is discharged, for example, on delivery or after a long period of storage, it needs to be charged before the Solar Mower can be started. Follow the start-up sequence in this Operator's Manual. You do not need to wait until the battery is charged when the Solar Mower has only been switched off temporarily.

Adjusting the cutting height



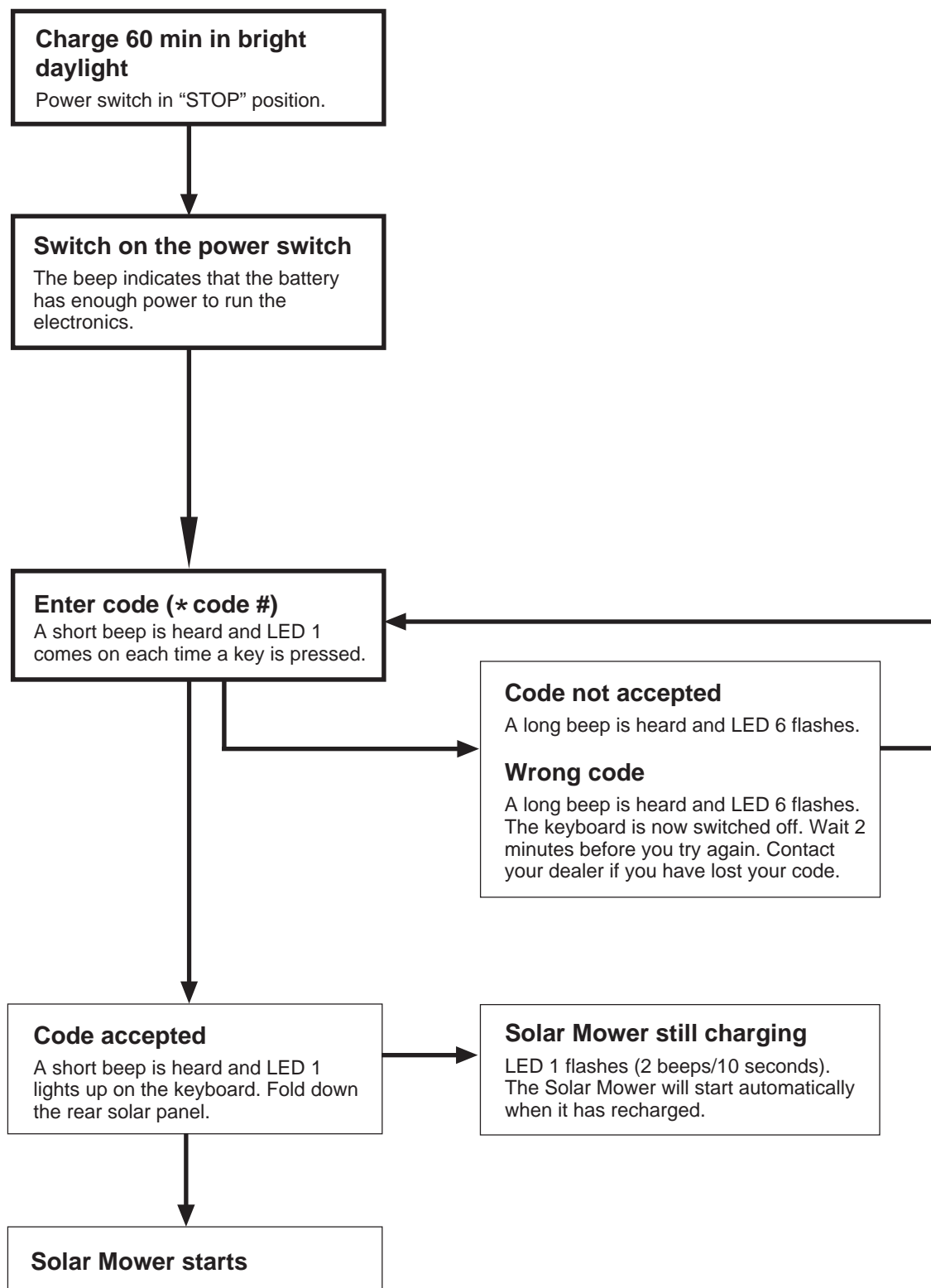
The cutting height can be adjusted between 3 and 9 cm.

- Switch off the Solar Mower by folding up the rear solar panel, enter the first digit of your personal code and switch off the power switch.
- Place something that is higher than the rear solar panel's edge under the Solar Mower when it is turned upside down. This will prevent the edge from being damaged.
- Undo locking knobs to release the cutting deck. Move the entire cutting deck upwards or downwards to give the desired cutting height (3-9 cm). Then tighten the locking knobs one at a time.



Start-up sequence

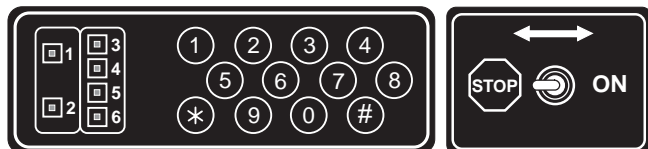
These instructions assume that the boundary wire and generator have been installed correctly. It is not necessary to charge the battery for 60 minutes if the Solar Mower has been used recently.



Settings

The keyboard is used to deactivate the theft alarm, enter the security code and to change the value of some of the Solar Mower's parameters.

If you have started to enter a value via the keyboard and wish to cancel the input, press *.



Basic setting

You can simplify the operation of the mower by entering * 9 # * code #. This switches off the theft alarm, so there is no need to enter the first digit of the code when you lift the cover. This also switches off all audible signals, except the start-up beep.

Choice of personal code

Your Solar Mower requires the code to be entered for it to function. On delivery the code is set to * 0000 #. It is however possible to select your own personal code, which of course is recommended. Select a code consisting of four digits and then enter the following from the keyboard:

*** current code # new code # new code #.**

Example: To change the from code 0000 to 1234:

*** 0000 # 1234 # 1234 #**

The green LED will come on after entering the sequence if the Solar Mower accepts the input.

NOTE! It is important that you write down your personal code and keep it in a safe place. If you do forget your personal code, contact your dealer.

Regular entry of the code

Your personal code must be entered periodically and in this way the solar mower is unusable if it is stolen. The solar mower signals that there is no code when it is time to re-enter the code. Note you do not need to change your code only enter it.

The code must be entered once per week under the default setting, but you can choose a time interval from 1 to 26 weeks by pressing:

*** 6 # no. of weeks # * code #**

Example: *** 6 # 5 # * code #** means that you must enter the code every fifth week.

The code must also be entered if the theft alarm is tripped or if the solar mower is switched off.

Setting the sound

The sounds the Solar Mower uses are divided into five groups:

Operating sound	The Solar Mower indicates it is mowing or charging.
Error sound	The Solar Mower indicates that something is wrong.
Night sound	The Solar Mower indicates it is in the idle mode due to a lack of sunlight.
Theft alarm	Comes on when the Solar Mower is not switched off correctly.
Start-up sound	The Solar Mower warns you that the cutting disc is about to start.

The volume of the following sounds can be set individually.

Operating sound	* 2 # volume #	(default volume 1)
Error sound	* 3 # volume #	(default volume 1)
Night sound	* 1 # volume #	(default volume 1)
Start-up sound	* 4 # volume #	(default volume 2)

The volume is set between 0 and 4, where 0 = silent and 4 = the highest volume. The theft alarm always has the highest volume when on.

Theft alarm

Under the default setting the theft alarm sounds for 1 minute. It is possible to set how long the theft alarm shall sound using the command:

*** 7 # number of minutes # * code #**

Example: *** 7 # 10 # * code #** sounds the theft alarm for ten minutes.

*** 7 # 0 # * code #** shuts the alarm off completely. The number of minutes can be set between 0 - 1000. The theft alarm always has the highest volume when on.

If you have a small lawn

IMPORTANT INFORMATION

Your Solar Mower is technically capable of working day and night, and is set to do so on delivery. It is not recommended that it is used in this way, however. If it works longer than necessary the lawn may look downtrodden. This would also subject the Solar Mower to unnecessary wear and shorten the life of the battery.

The Solar Mower works as soon as there is sufficient daylight. If the Solar Mower is used on a small area it may mean that it works more than is necessary to keep the lawn mown. To avoid this it is possible to limit the operating time by entering:

*** 8 # maximum operating time in hours #**

The operating time can be selected from 1 - 10, where 1 - 9 sets the limit for the maximum number of operating hours per day. 10 means unlimited operation. Note it is the maximum number of hours that is set. The actual operating time varies depending on the available light and the cutting resistance. The correct setting will vary from garden to garden. Try different operating times until you get a satisfactory result.

When the Solar Mower has mown for the set number of hours LED 2 flashes when the rear solar panel is lifted. The Solar Mower will not start to mow again until night has passed.

Resetting

Pressing *** 21 #** returns all settings to their default values set when the Solar Mower was delivered. However, your personal code will not be changed.

Searching for a buried boundary wire

The Solar Mower has a feature that will easily find a buried boundary wire. Enter *** 5 # 1 #** and the Solar Mower will be set to look for the boundary wire.

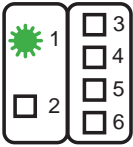
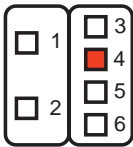
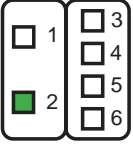
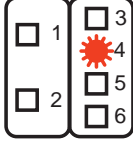
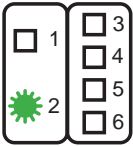
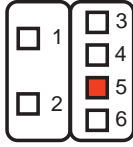
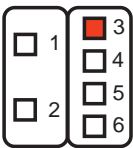
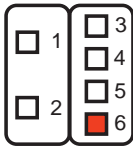
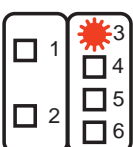
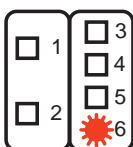
Move the Solar Mower, with the rear solar panel folded up, towards the area where the boundary wire has been buried. When the Solar Mower gives off a signal the boundary wire is directly under the sensor at the front of the Solar Mower. The command only works when the generator is connected. If the mower cannot detect any signal, all four LEDs will flash.

Reset the Solar Mower to normal operation by entering *** 5 # 0 #**, or fold down the rear solar panel.

USE

Error and information messages

This table will help you to easily interpret the Solar Mower's signals. When the panel is opened and the alarm has been switched off the LEDs on the keyboard will come on for 12 seconds. A green LED indicates an information message and a red LED an error message. To see the latest error message again, enter * 20 #.

LED	Sound	Meaning	LED	Sound	Meaning
LED 1 flashes 	2 beeps every ten seconds	Charging in progress. When charging is complete the Solar Mower starts to work again.	LED 4 on 	3 beeps per second	The cutting disk is blocked. Switch off the power switch and check that the cutting disc rotates freely.
LED 2 on 	1 beep every sixty seconds	Night mode.	LED 4 flashes 	3 beeps per second	The Solar Mower is outside the working area, or the boundary wire is connected incorrectly.
LED 2 flashes 	2 beeps every ten seconds	Solar Mower has mown for the set time. It will start mowing again next day.	LED 5 on 	3 beeps per second	The wheel motors are blocked or slip. Check that nothing is blocking the drive wheels.
LED 3 on 	3 beeps per second	No code or has expired. Enter the code again.	LED 6 on 	3 beeps per second	The Solar Mower does not sense the signal from the wire.
LED 3 flashes 	3 beeps per second	The Solar Mower has got stuck.	LED 6 flashes 	Long beep	Incorrect entry from the keyboard.

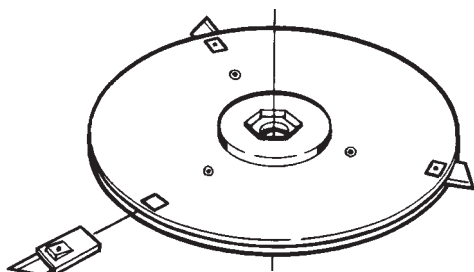
If an error has occurred this is signalled until night falls, the Solar Mower then enters night mode. However, if you lift the panel during the night the error code is displayed. The long beep after the panel has been lifted indicates that the cutting disc brake is on.

MAINTENANCE

Replacing the blades



The cutting disc is bolted to the cutting motor axle and holds three blades thrown out by centrifugal force. These blades are mounted in blade holders (coloured red) to allow them to be easily attached to or dismantled from the cutting disc.



The design of the blade holders ensures that the blades are well secured if a collision with small objects, e.g. twigs on the lawn, should occur.

Check that the blades are not damaged as this can cause vibrations that can damage the Solar Mower. If necessary, replace all three blades at the same time so that the cutting disc maintains its balance.

- Carefully part the cutting disc's two discs using a screwdriver or pen so you can grasp the red coloured blade holders.
- Remove the blade holders.
- Fit new blade holders on the cutting disc.

Replacing the batteries

The Solar Mower's battery

The service life of the battery is normally between one and two years depending on how it is used. If the Solar Mower requires long charging times during sunny days and despite this has a short operating time the battery should be replaced. Contact your dealer to replace the Solar Mower's battery.

The generator's battery

The battery in the generator has the task of ensuring the boundary wire generates an electromagnetic field, even when the sun is not shining. It is important that the generator is positioned in a sunny spot, so place it as far out in the open as possible. Avoid placing it next to walls, bushes, trees, etc.

If the Solar Mower has difficulty in sensing the boundary wire despite its length not exceeding 500 m it may be necessary to replace the battery in the generator.

Used batteries should be returned to your dealer or taken to a recycling station.

Cleaning

Solar panels



Clean the solar panels regularly. Use a soft sponge or a piece of cloth and plain water. A soapy solution or washing up liquid may be used if the solar panels are heavily soiled. During the pollen season the solar panels should be cleaned daily.

NOTE!

Never use solvents such as, acetone, petrol or the like to clean the solar panels. These can damage the solar panels and thereby reduce the solar cells' effect.

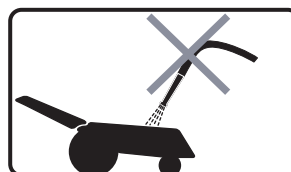
Cutting disc



Inspect the cutting disc and blades once a week. Remove any clumps of grass using a small brush and clean the blades if necessary.

NOTE!

Never use a high pressure washer, not even running water, when cleaning the cutting disc as water can enter the electronics and destroy the sensitive components.



Winter storage



- During the winter the Solar Mower should be stored in a dry place, preferably in the original packaging or parked on all four wheels with the power switch off.
- The generator should also be kept indoors during the winter.
- The battery does not require any maintenance over winter.

TROUBLE SHOOTING

Trouble shooting chart

All trouble shooting should be preceded by at least 1 hour of charging (with the power switch in the off position) outdoors, in the middle of the day to eliminate the possibility that the fault is due to a badly charged battery. Read through the entire Operator's Manual to make sure that the fault cannot be easily rectified via the keyboard or the main power switch.

Observation	Possible cause	Action
3 beeps/second LED 6 on	If the Solar Mower is inside the mowing area the boundary wire is incorrectly connected to the generator.	Swap the boundary wire connections to the generator.
	The Solar Mower does not sense the signal from the boundary wire.	Check that there is no break in the boundary wire (by using the operating test switch on the generator).
	If this occurs in isolated areas it can be caused by disturbances from metal objects (fencing, reinforcement) or by buried cables in the vicinity.	Try moving the boundary wire.
	If it occurs in the vicinity of an "island", it can be due to the boundary wire being routed in the wrong direction around the "island" and thereby extinguishing the signal.	Check that the boundary wire has been laid according to the installation instructions.
	If it only occurs in the morning it can be caused by the battery in the generator being discharged.	Replace the generator battery.
	Too large area. The Solar Mower is more than 35 metres from the boundary wire.	Check that the boundary wire has been laid according to the installation instructions.
3 beeps/second LED 4 on	The cutting disc is blocked.	Check that the cutting disc can rotate freely.
3 beeps/second LED 5 on	Drive wheels are blocked.	Check whether something is blocking the drive wheels.
The Solar Mower stops systematically to recharge when it moves into the shade.	The battery has a reduced capacity.	Contact your dealer to replace the battery.



TROUBLE SHOOTING

Observation	Possible cause	Action
The Solar Mower "escapes".	If this occurs in isolated areas it can be caused by disturbances from metal objects (fencing, reinforcement) or by buried cables in the vicinity.	Try moving the boundary wire.
	The mowing area slopes too much.	Check that the boundary wire has been laid according to the installation instructions, the slope may be max. 15°.
	The boundary wire has been routed the wrong way around an "island".	Check that the boundary wire has been laid according to the installation instructions.

Uneven mowing result.	Too large mowing area.	Try to limit the mowing area.
	Blunt blades.	Replace all the blades at the same time so that the rotating parts are balanced.
	Long grass.	Mow the grass using a conventional lawn mower before you put the Solar Mower to work.
	Clumps of grass on the cutting disc.	Remove the grass using a little brush.

The Solar Mower vibrates.	Unbalanced cutting disc or damaged blades.	Clean the surface of the cutting disc with a small brush. If you need to clean between the riveted discs, remove the blades and clean with a length of steel wire. Replace the blades.
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Serial number: _____
Personal code: _____

EU declaration of conformity (Only applies to Europe)

(Directive 89/392/EEC, Annex II, A)

We, **Husqvarna AB**, S-561 82 Huskvarna, Sweden, tel. +46 36-146500, declare under sole responsibility that the automatic lawn mower Husqvarna **Solar Mower** from 1998's serial numbers and onwards (the year is clearly stated in plain text on the type plate with subsequent serial number), is in conformity with the following standards or other normative documents following the provisions in the COUNCIL'S DIRECTIVES:

- of June 14 1989 "relating to machinery" **89/392/EEC** and applicable supplements.
- of May 3 1989 "relating to electromagnetic compatibility" **89/336/EEC**, and applicable supplements.

The following standards have been applied: **EN292-2**.

Husqvarna October 21, 1997



Bo Andréasson, Development manager



2000W03