



## ZOEF ROBOT Robot Mower User Manual

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#### Welcome

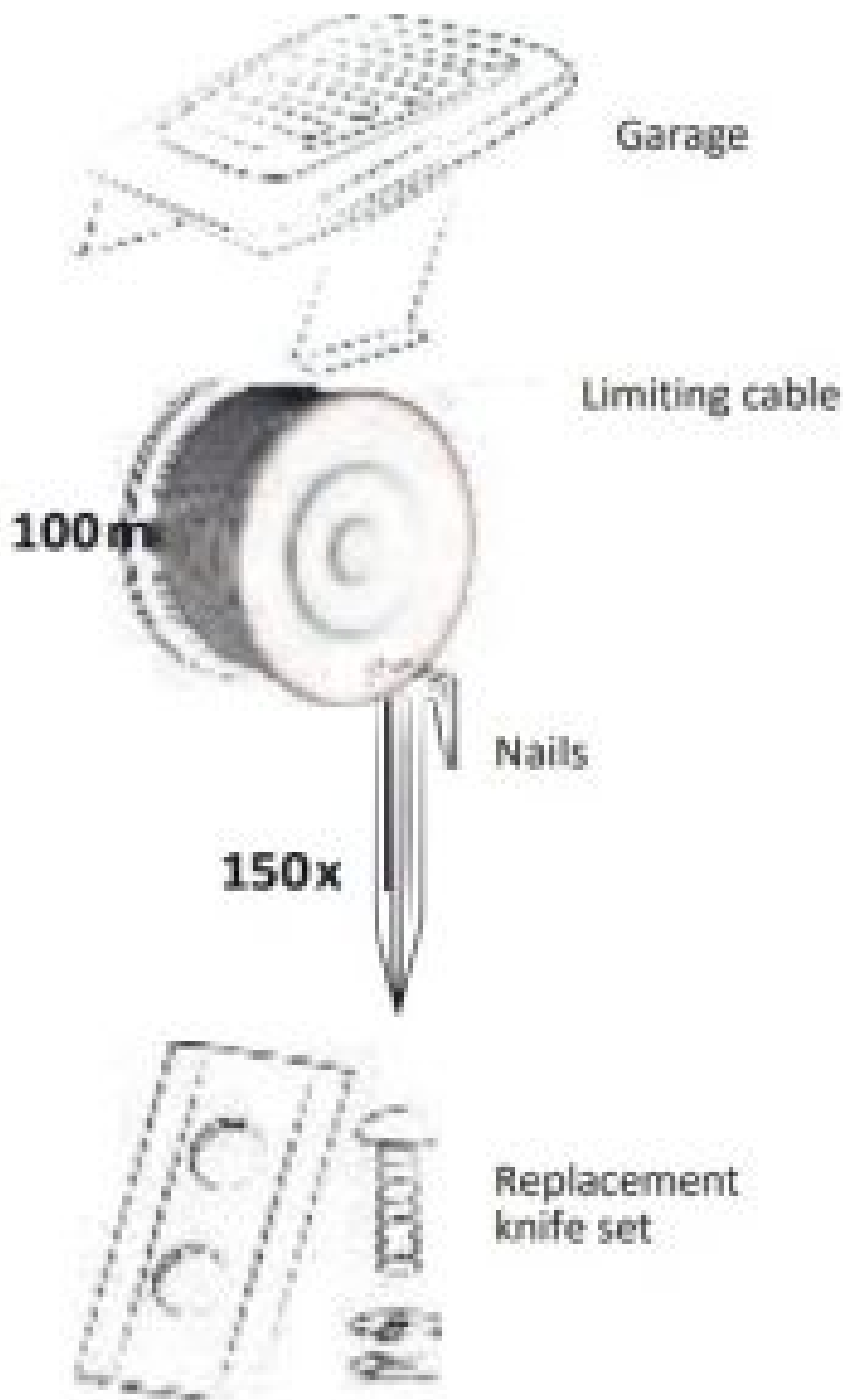
You are purchasing a high-quality product, showing that you have high expectations to it. For effective and safe operation, read and follow these instructions and the safety instructions contained therein carefully. Keep this manual and the original packaging for future reference and for repackaging for transfer. We want you to choose our appliances and products in future as well.

This robot mower is a smart auto recharging home appliance powered by lithium-ion battery and integrated with multiple sensors detected obstacles, lying, tilting angles, flipping over, rain boundary line perimeter. Within the boundary line perimeter laid prior on your lawn, the robot mower is able to automatically mow your lawn during programmed clock time and recharge itself. This great device can reduce the amount of work and save lots of money for lawn maintenance. This model is suitable for lawn sizes under 1500m<sup>2</sup>.

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## **Optional accessories**



## Safety information

Never allow children, persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge or people unfamiliar with these instructions to use the machine, local regulations may restrict the age of the operator.

This appliance must not be used by children. Not to allow children to be in the vicinity or play with the machine when it is operating.

Keep the appliance and power cable away from children under 14 years old. Periodically check the appliance for damage and tighten the screws. Never operate defective appliances.

Repairs on the appliance are only permitted by a specialist. Improper repairs may cause considerable dangers to the user. Only use genuine accessories approved by the manufacturer. If the appliance is used for purposes other than those specified by the manufacturer, operated incorrectly, or not repaired professionally, we will not accept any liability for any resulting damage. In this case, the warranty claim will be void.

Do not remove/deactivate any safety elements installed on the appliance (e.g. protective flaps/lids, safety switch).

Protection class III for increased appliance safety.

The appliance is not intended for commercial use.

**Attention:** Do not operate the appliance near any easily flammable liquids/gases or dust – danger of explosion! Familiarise yourself with the appliance before initial use while the motor is turned off. Attention: Always turn off the appliance and wait for standstill of the appliance parts for transport, maintenance, repair work, cleaning, emptying of the collection basket, partial or complete lifting of the appliance, passing of non-grass areas or unsupervised leaving of the appliance – danger of injury!

Do not put any objects and / or fingers into any openings of the appliance.

Securely hold the appliance, ensure a safe stance comply with the safety distance Do not etc. wear loose jewellery, clothing etc. and tie back long hair.

At clogs/scratches on an object: Turn off the motor at once, check the appliance for damage. Do not touch moving harardous parts before these have come to complete stop. Disconnect the supply (e.g. remove the plug from the mains or remove the disabling device) -before clearing a blockage -before checking, cleaning or working on the machine; -after striking a foreign object to inspect the machine for damage; -if the machine starts to vibrate abnormally, and to check for damage before restarting

Never operate the appliance on wet or slippery/iced surfaces. Caution when working on steep slops/uneven terrain.

Keep unauthorised persons/animals away from the working area. Turn off unused/unsupervised appliances. Do not operate the appliance if you are drowsy,

physically unwell, under the influence of drugs/ alcohol/medicines, etc.

Comply with public provisions for resting times.

Only perform cleaning and maintenance work after complete standstill of the knife. Attention: The knife lags! Allow the appliance to cool down before stowing it away.

Power supply: The voltage must correspond to the information on the charging station nameplate. Check the charging station/power cable for damage.

Never take the damaged charging station into operation. Repairs on the charging station only by specialists for reasons of safety. Never pull on the mains cable, e.g. to pull the mains plug. Keep the mains cable away from hot surfaces/objects, oils, sharp edges and moved objects.

## **Safety information**

We advise connecting the machine and/or peripherals only to a supplu circuit protected by a residual current device (RCD) with a tripping current of not more than 30mA.

Only use a cable with a matching mains plug. NEVER modify the cable / mains plug!

Fluid leaks may occur during improper use of the battery. Body contact with this fluid must be avoided. In case of eye contact you must consult a physician.

Do not expose the battery to direct sunlight/liquids. Charge and store the battery at room temperature.

Do not keep the unused battery near any coils, keys, nails, screws or other metal objects.

Only use the genuine charging station and genuine battery.

Attention: Always remove the battery for transport, before setting the appliances, before replacing accessories, maintenance, partial or complete lifting of the appliance or when leaving the appliance unsupervised danger of injury!

## **Battery safety circuit**

The battery turns off automatically if it grows too hot, has too much current, is nearly drained. Charge the battery every 3 months in order to avoid deep discharge. Do not store the battery in Temperatures of tess -0.5°C or above 50°C





To avoid using the machine and its peripherals in bad weather conditions especially when there is a risk of lightning.

## **Disposal/environmental protection**

Never dispose of this appliance with household waste. Ask your municipal authority about the nearest official collection point and only use this. If appliances are disposed of unchecked, contaminants can leak out and poison

the food chain, flora and fauna. Your point of sale is obliged to take back used appliances. We would therefore ask that you support us by making an active contribution to environmental protection by returning this appliance to the manufacturer. The manufacturer guarantees professional disposal according to the local directives. Professionally dispose of the battery in accordance with the local provisions. Not domestic waste!

### Notice signs on the appliance

	WARNING – Read the operating instructions before commissioning of the machine.
	WARNING-Comply with a safety distance from the machine during operation.
	WARNING – Do not ride on the machine.
	WARNING- Turn off the machine before working on the machine or lifting.

### Warranty for the appliance

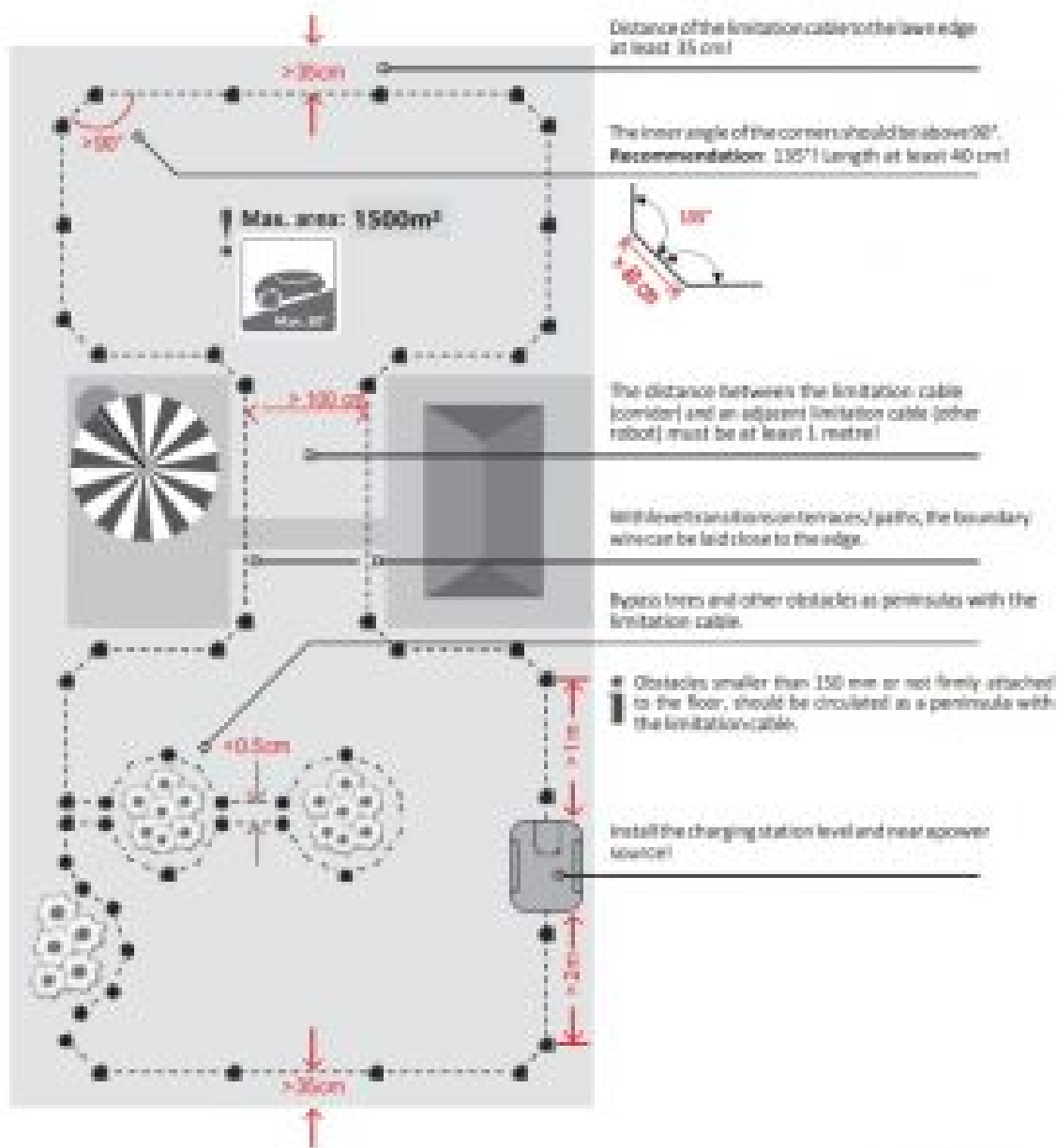
This product was produced based on the highest quality standards. A manufacturer's warranty of 24 months is granted, starting on the date of the sale, when purchasing a new product. The warranty covers only defects that are due to material and/or manufacturing defects and non-compliance and/or manufacturing defects and non-compliance of promised properties. Wear parts are exempted from the warranty. When asserting a warranty claim the original receipt with sales date must be enclosed. Warranty repairs must only be performed by authorized workshops or service stations. A warranty claim only applies at intended use. The warranty shall not include any damage caused by the following events: Abuse, overload or neglect, commercial use (industry, trade, renting), repairs by unauthorised offices, damage by foreign bodies, substances or accidents. Warranty for battery 1 year.

### Planning the installation

**Recommendation:** Create a sketch with working area and all obstacles in order to simplify the installation !

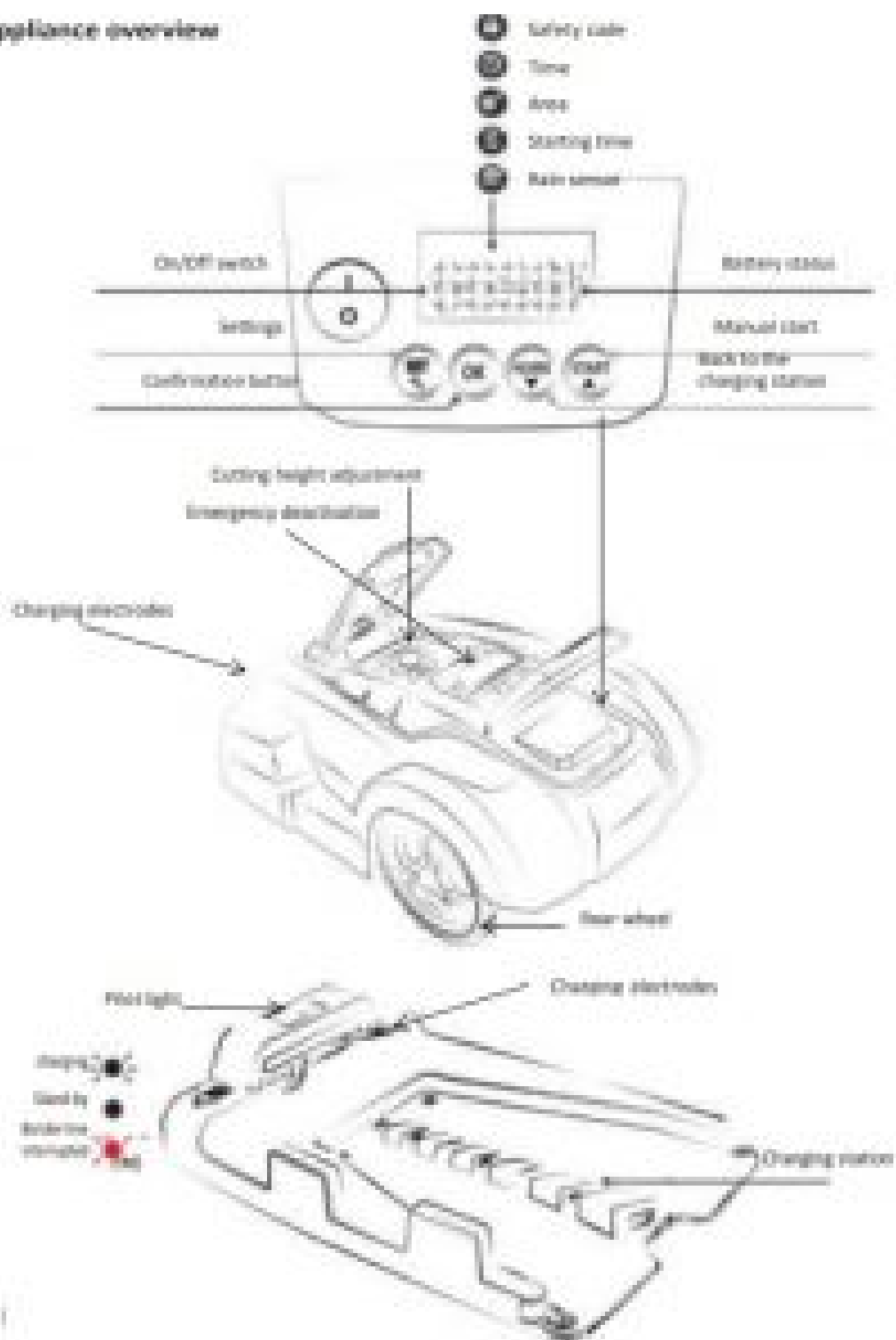
**Note:** Reinforcement armoring irons in subterranean buildings/adjacent limitation cables and power cables of other electrical appliances produce magnetic fields that may cause navigation interference.

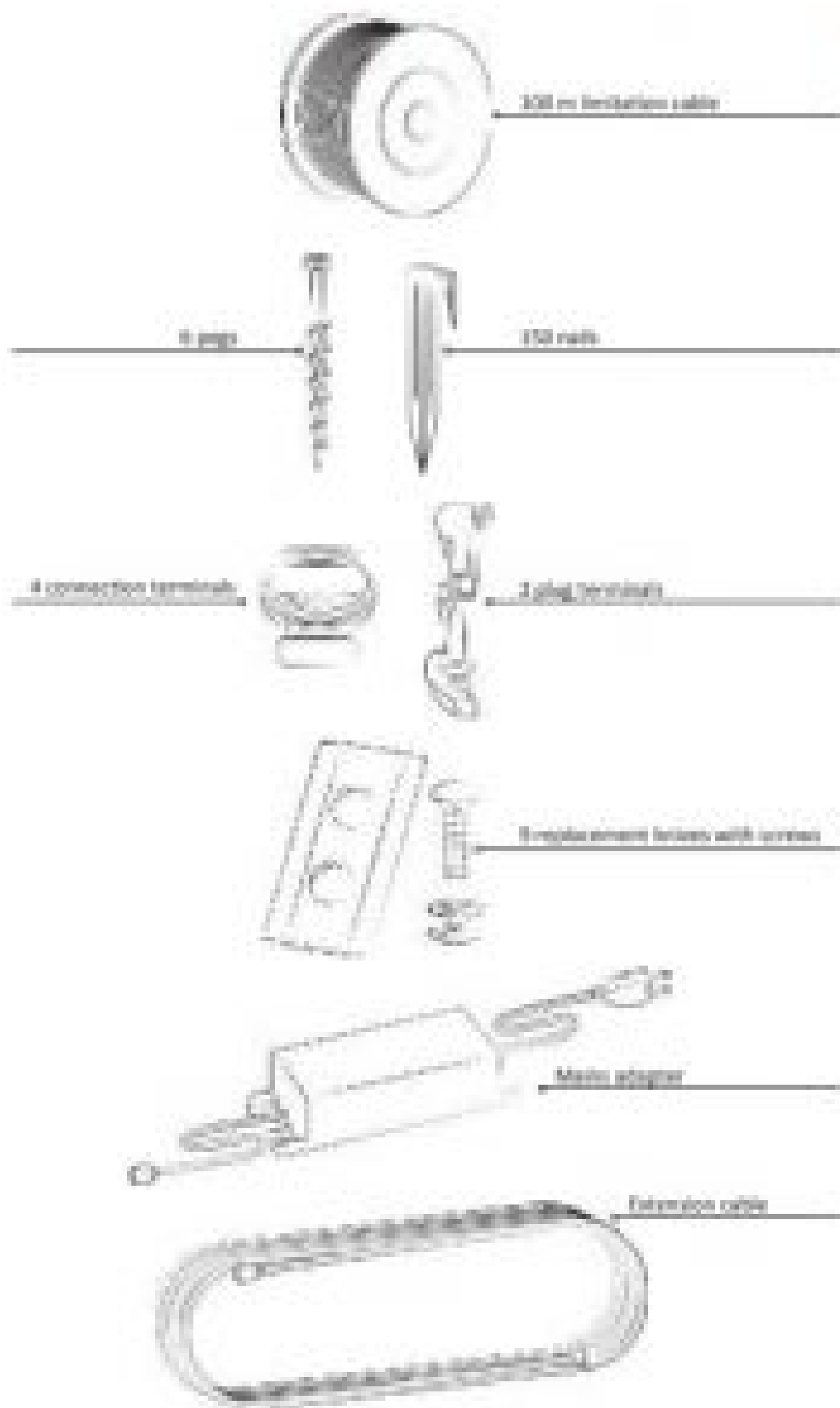
**Note:** Turn off the appliance during long periods of rain. The ground will be muddy after strong rain. The mowing output may be impaired under such circumstances, and the lawn appearance may suffer.



## Appliance overview

## Appliance overview





Initial setup



Please read safety instructions before setup. Check the appliance for completeness.

1. Place the charging station

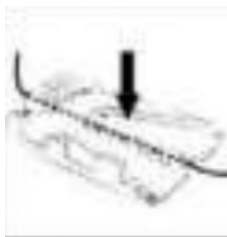
Comply with distances and alignment!

Install the charging station level and near a power source!

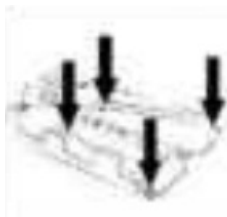


2. Place the limitation cable under the charging station in a cable groove

Consider at least 50 cm reserve at the ends!



3. Fasten the charging station

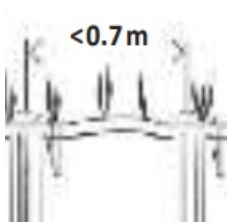


4. Place the limitation cable taut with the nails

Place the limitation cable <2-3 cm in the ground!

**Recommendation**

Place the limitation cable taut on the lawn. The limitation cable will grow into the lawn.

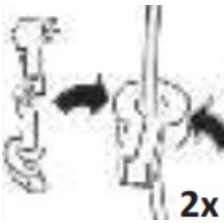


5. Remove the cover



6. Place the wire in the clamp and close it firmly

Strip the limitation cable if necessary!



#### 7. Connect the terminals

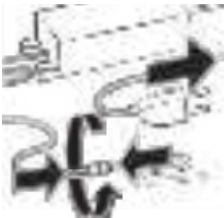
Connect the limitation cable under the charging station to the plus e connection! Connect a different cable to the minus connect on!



#### 8. Connect the mains unit

Correct installation

Defective installation: (red) (kink /interruption/loose contact)



#### 9. Apply the cover

Completely charge the robot before initial commissioning!



### Status messages/ error messages

E1	<b>Emergency off actuated</b> Re-start the robot
E2	<b>Lifting sensor has tripped</b> Wheel blocked? Remove object, restart robot

E3	<b>Robot outside of the mark</b> Place robot inside, restart
E4	<b>Limitation wire cut</b> Red indicator lamp flashes? Repair limitation cable, restart robot
E5	<b>Collision sensor tripped</b> Obstacles? Re-start the robot
E6	<b>Power Intake motor left too high Grass too high</b> ( > 4cm)? left wheel blocked? Re-start the robot
E7	<b>Power Intake motor right too high Grass too high</b> ( > 4cm)? Right wheel blocked? Re-start the robot
E8	<b>Overcurrent at the cutting motor Grass too high</b> ( > 4cm)?Cutting sleeve blocked? Re-start the robot
E9	<b>Error In the charging status</b> Battery malfunction, switch robot on /off several times. Lf this error persists, contact the” ser vice center
E10	<b>Over-/under voltage</b> Malfunction of the battery, contact service point
E11	<b>Inclination sensor tripped</b> Inclination in excess of 20 degrees? Restart the robot “,

E12	<b>The wheel slips</b> The grass too high 0< wet? Re-start the robot
E13	<b>Overheating on the battery</b> Wait for the battery to cool down. Re-start the robot
F1	<b>Robot does not start, signal present</b> Robot outside of limitation cable? Limitation cable correctly connected?
F2	<b>Robot does not start, no signal (charging station)</b> Limitation cable/mains adapter correctly connected?
F3	<b>Robot does not start Robot</b> Switched off beforehand? Place the robot on the charging station and restart
F4	<b>Battery voltage too low</b> Completely charge the robot

## Re-start the robot

1. Place the robot on the limitation cable
2. Enter the safety code
3. Push the start button



If the robot is switched off, it must be started at the charging station.

## Usage Instructions

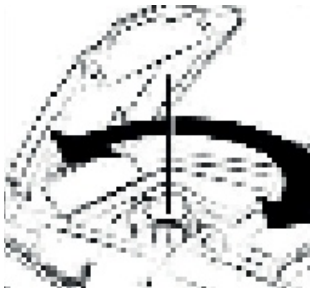
Observe the safety Instructions!

1. Prepare the lawn

Ensure that there are no object (pine cones, branches rocks, etc)that may damage the robot or be ejected by it.  
During the first moving process, always set the cutting height to max in order to avoid the damage to the limitation cable! Cut the lawn to 4cm at most during first moving

## 2. Set the cutting height (2 – 6cm)

**Recommendation:** Do not set the cutting height too short in dry weather in order to avoid drying out of the lawn!



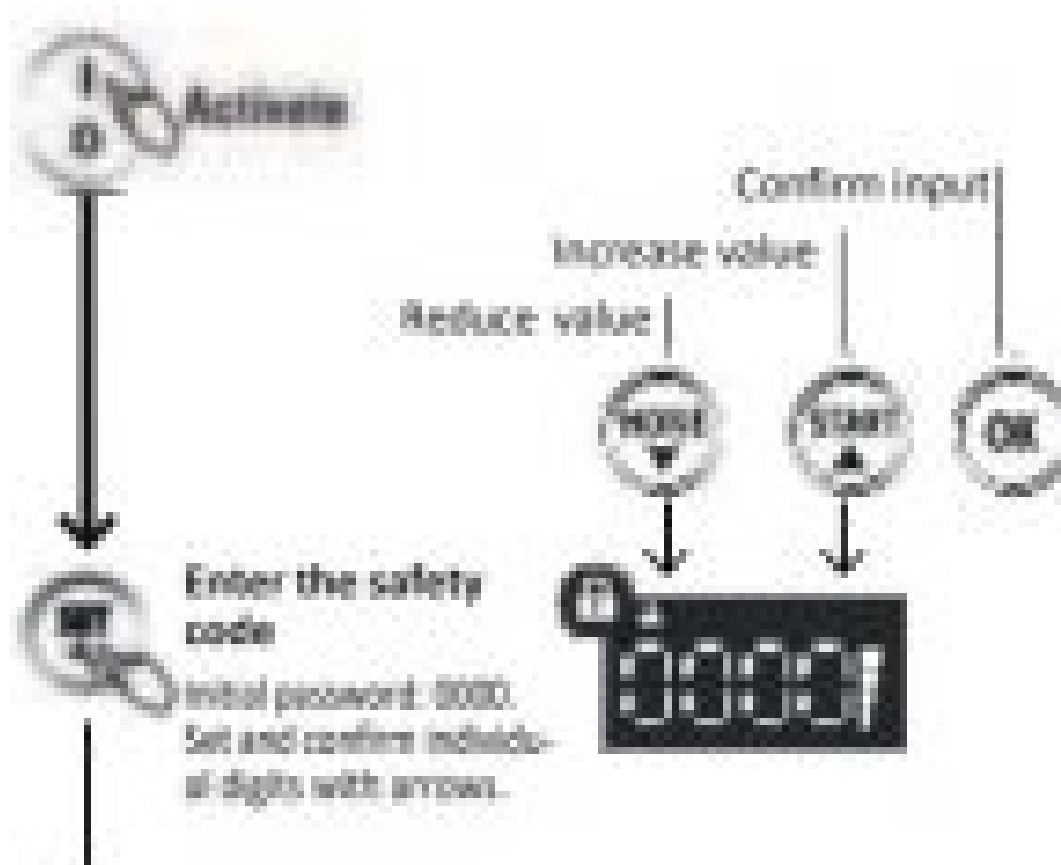
## 3. Programme automatic start or: Manual start

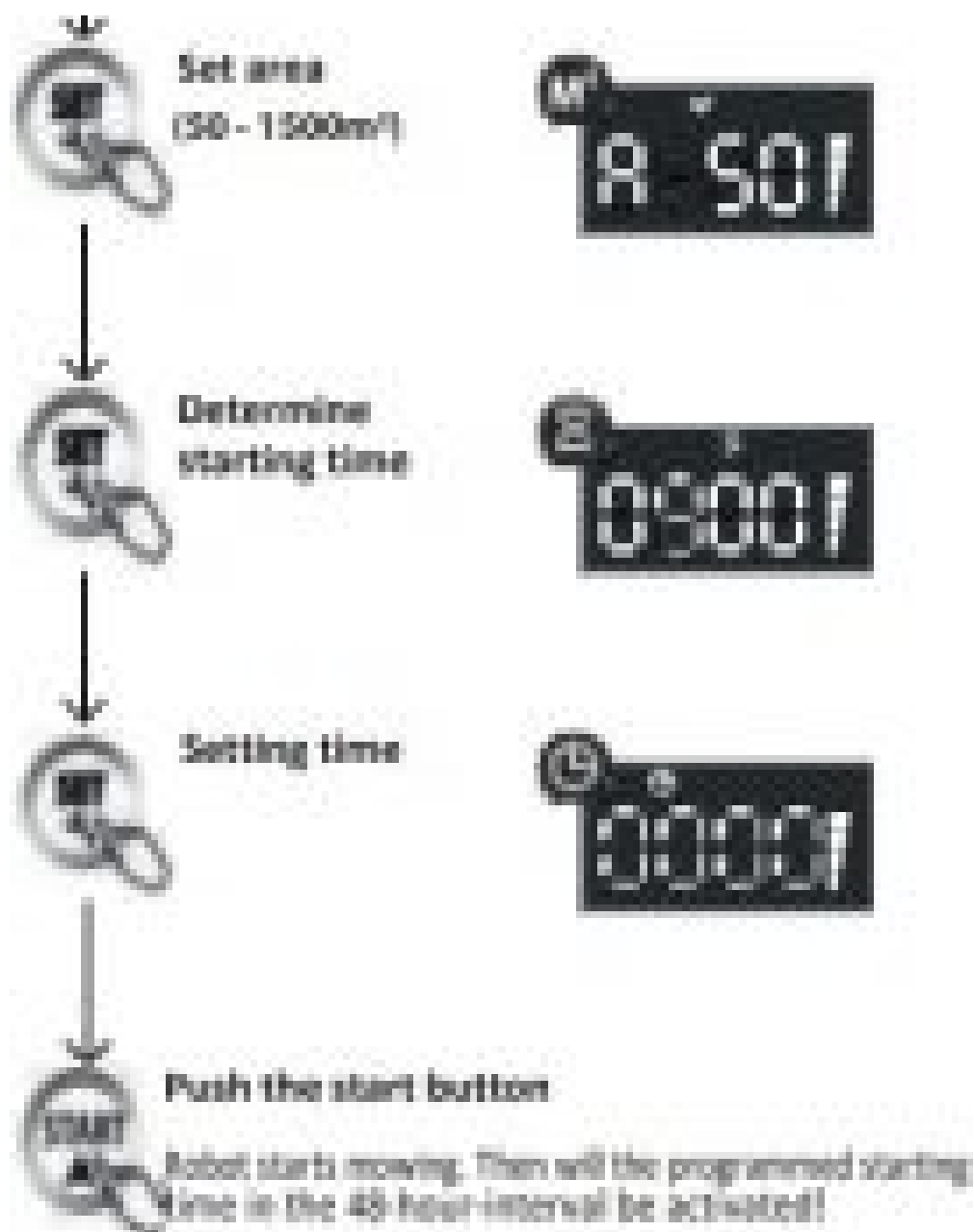
! **Emergency deactivation:** Push the STOP button at once and turn off the robot in case of dangers, accidents or if the appliance vibrates strongly.

- The robot returns to the charging station on its own for charging. Automatic resumption of mowing.
- Rain sensor – Robot returns to the charging station if it rains. Next start in the 48 hours interval.
- Robot stops automatically at inclination of  $> 20^\circ$ !
- Collision sensor! Robot moves around obstacles.
- Danger of Injury! Never reach into running knives.

## Programme automatic start

After activation the individual digits of the safety code must be entered! first connect the mains. Completely charge the robot before initial commissioning!





## Manual start

After activation, the individual digits of the safety code must be entered! First connect the mains. Completely charge the robot before initial commissioning



If the robot is switched off, It must be started at the charging station

**WARNING!**When the robot is moving, keep unauthorized persons away from the robot who have not read through these Instructions or have completely understood them.

#### **If you want to change the code**

Start by pressing the factory code+START

The machine leaves the docking station and starts operating.

After a few meters, press STOP error code E1 on the display.

- Press START and hold the START button for 10 seconds until the code U 133 appears on the display.
- Press SET. The lock icon (image) flashes. Press the factory code 0000 one by one with OK, until 0000 is lit continuously.
- Press SET again and the lock icon flashes.

Now press the 4-digit security code that you personally chosen and then press OK. your personal security code has now been set and is lit continuously.

Finally, press START and the machine will continue to run.

**DON'T FORGET YOUR CODE!**

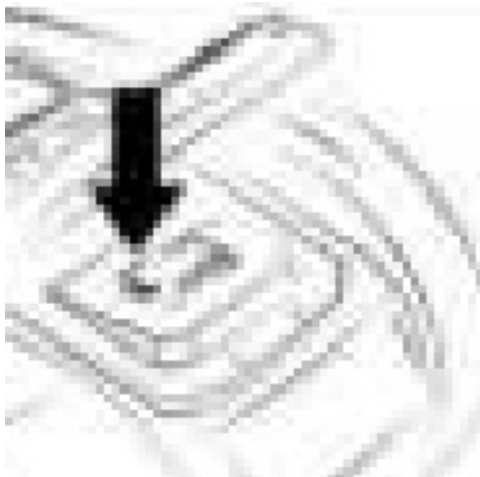
Note: If you forget your personal code, the machine must be sent to the distributor to be reset.

## Cleaning

**i** Important : Clean the robot at regular intervals. If too much grass collects, the moving result will suffer

### 1. Turn off the robot

Always wear protective gloves.



### 2. Wipe off the appliance moist, let it dry

No water must enter the appliance! Do not use solvents! Do not spray off the appliance with a garden hose/high pressure cleaner!



### 3. Clean knife disc/wheels

Caution, sharp knives! Put on protective gloves!





#### 4. Clean the charger

Always unplug the mains plug before cleaning the charging station!



#### Positioning



- charge the robot fully first

#### 1. Clean the robot



#### 2. Store the robot, charging station in charging cable frost-protected.

The limitation cable placed may we left on the lawn. keep the appliance in a dry location outside of the reach of children, protected from direct sun light and extreme temperature!

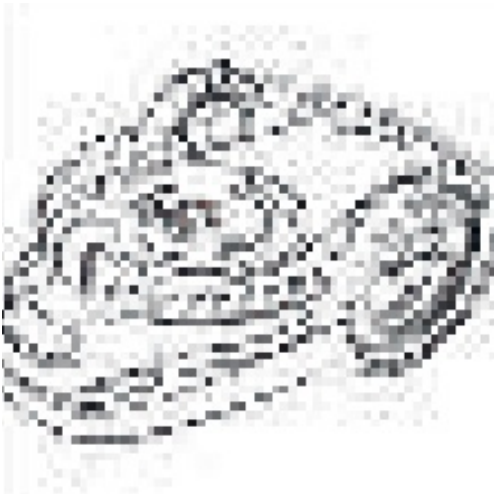


- Charge battery every three months in order to avoid deep discharge. Do not store the battery in temperature of less than -5C or above 50C. Remove the robot from the charger after charging.

### **Replace the knife/remove caught objects**

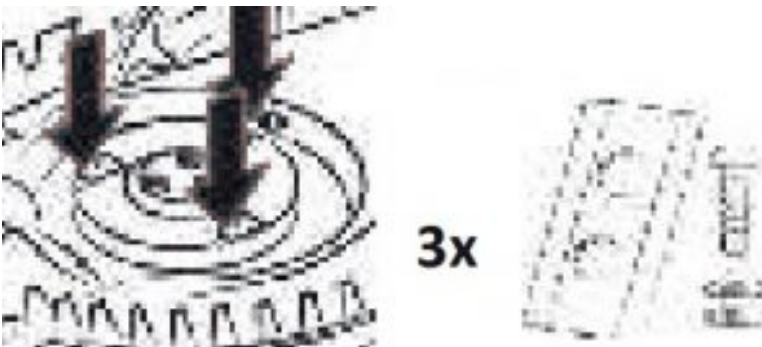
Turn off the on/off switch first and put on protective gloves.

1. Reverse the robot, remove caught objects if necessary.



2. Release the screws, remove defective knives

Check the knives every 2 months and replace them at the same time if necessary if the robot is used every day. Replace defective knives at once.



3. Insert new knives and new screws.

Ensure that the knives turn and work properly!




The machine user should implement safety measures for residual risks that remain despite the inherent safe design measures, safeguarding and complementary protective measures adopted.

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## Documents / Resources

	<p><a href="#">ZOEF ROBOT Robot Mower</a> [pdf] User Manual Robot Mower, HARM 2.0, MR24Z-2.0</p>
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