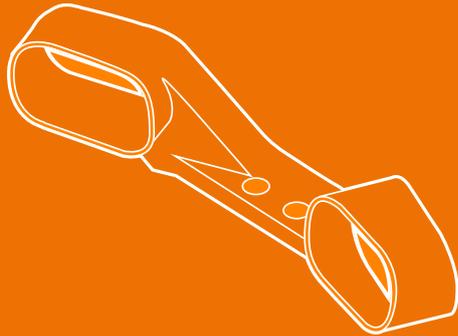




**WORX**  
it's your nature

ACS get started

**In the box**



1x



2x



**From your toolbox**



**LANDROID**  
UNMANNED  
MOWING  
VEHICLE

**WA0860**

# TABLE OF CONTENTS

---

## **Welcome**

p. 03 Contact information

---

## **Safety first**

p. 04 Important safety instructions

---

## **Get familiar with**

p. 05 What's in the box

p. 06 How it works

---

## **Getting started**

p. 07 Installation

---

## **Quick reference**

p. 21 Trouble shooting

p. 21 Technical data

p. 22 Declaration of Conformity

---

**Thank you for purchasing a Worx ACS.**

**We're here to help:**



**Support**

[www.worx-europe.com/support](http://www.worx-europe.com/support)

**Landroid Owner's Site**

<https://account.worxlandroid.com/login>

 **WARNING: Read all safety warnings and all instructions**

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

**Carefully read the instructions for the safe operation of the machine.  
Save all warnings and instructions for future reference.**

## Symbols



Warning

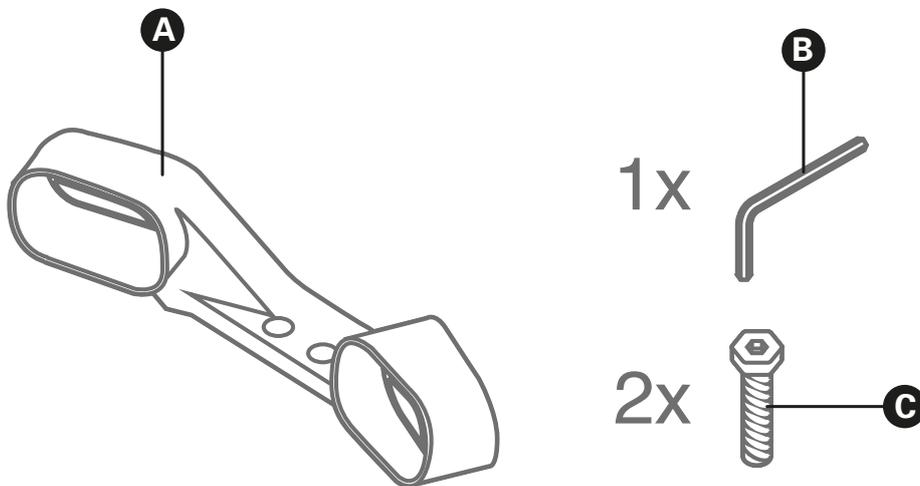


Read the operator's manual.



Waste electrical products should not be disposed of with household waste.  
Please recycle where facilities exist.  
Check with your Local Authorities or retailer for recycling advice.

## WHAT'S IN THE BOX



**A** ACS module

**B** 1 allen key

**C** 2 screws

## HOW IT WORKS

The ACS option allows Landroid to detect obstacles such as trees and furniture and steer accordingly in order to avoid them. It gives “eyes” to your Landroid.

Landroid uses automotive-grade ultrasonic sensors to detect obstacles and avoid them. ACS detects objects taller than 20 cm and thicker than 25 mm. Please note that in case the height of the grass is higher than 20 cm, ACS will detect it as an obstacle, therefore the grass will not be cut. If this is the case, It is recommended to disable ACS function (via display or via App).

ACS gets deactivated when:

- Landroid is lifted or trapped
- Landroid starts, ACS is deactivated for few seconds
- Landroid is running back to the charging base on the boundary wire
- Landroid is on its way to a mowing zone
- Landroid meets the boundary wire and bounces back, ACS is deactivated for 2 - 8 seconds
- it rains (as large drops might be recognized as obstacles)
- there's heavy dew in the morning
- the robot is raised
- the sensors are dirty (please remember to clean them regularly).

Also, be aware that ACS is not compatible with ultrasonic devices like pet repellers – they emit ultrasounds which interfere with the sensors.



**IMPORTANT NOTE:** Even though the ACS can potentially improve safety, it must not be used as a safety feature. Do not leave Landroid equipped with ACS to operate unattended if you know that there are children, pets or people in the vicinity.

# INSTALLATION

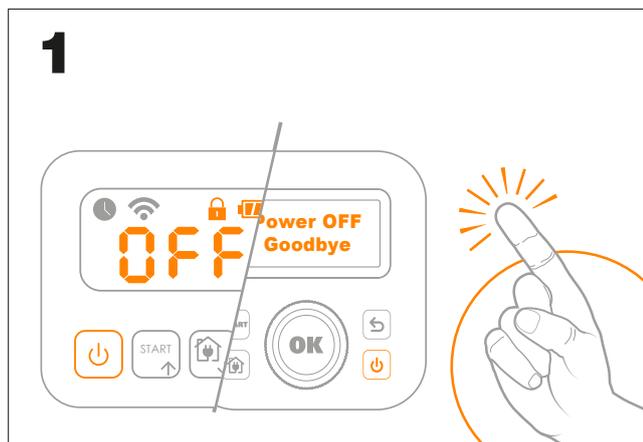
Installing the ACS accessory is straightforward. Landroid automatically recognizes the new module and behaves accordingly - no manual settings needed. Once the ACS module is correctly installed, it's displayed both on the app's home screen or on Landroid's display. Here below the steps to follow to install ACS into different Landroid models.

Before proceeding with the installation please make sure your Landroid's firmware is updated to the last version. For more information on firmware upgrade please refer to the "Maintenance" section of the Landroid-o-pedia (<https://support.worx-europe.com>).

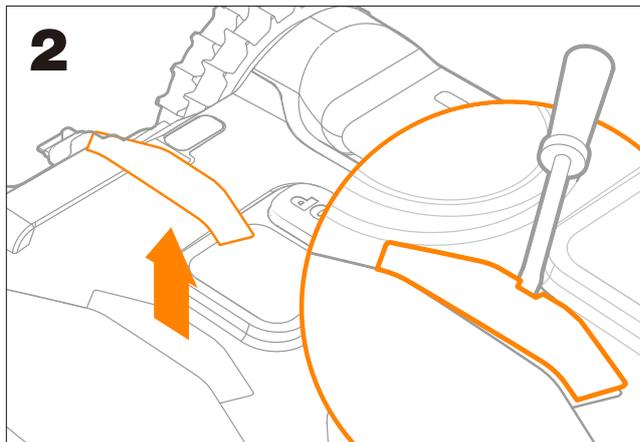
**Landroid S 300 (WR130E)**

**Landroid M 500 Plus (WR165E) / Landroid M 700 Plus (WR167E)**

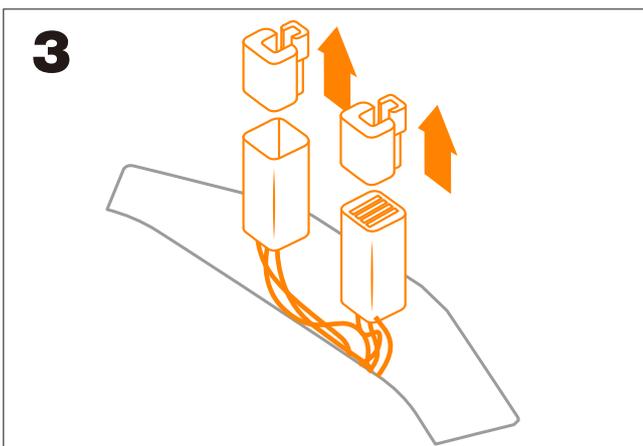
**Landroid L 1000 (WR147E.1) / Landroid L 800 (WR148E)**



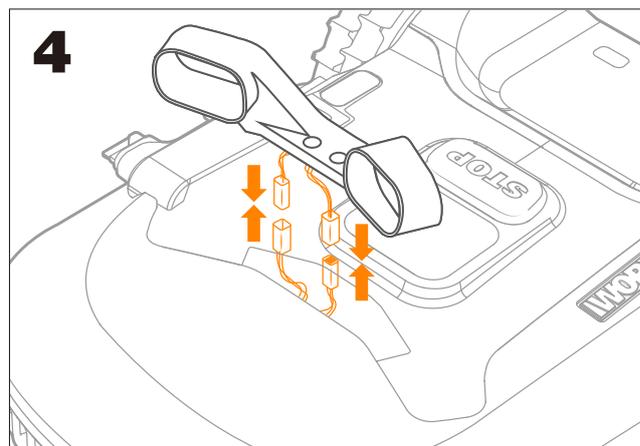
1. Turn off Landroid



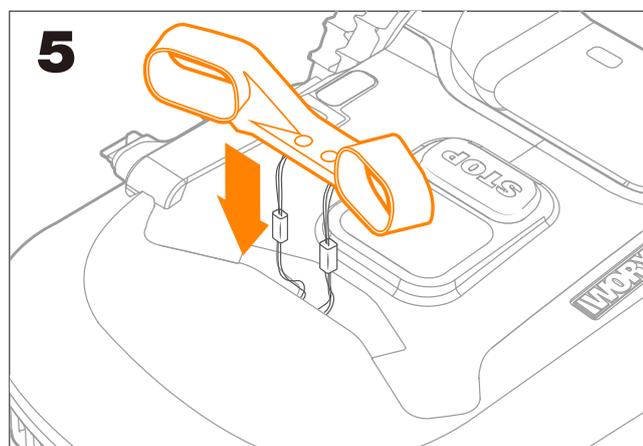
2. Use a screwdriver to remove the cover



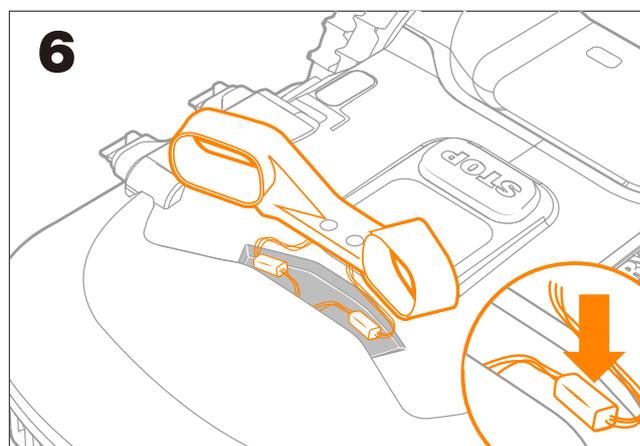
3. Remove Landroid connector's inner protection



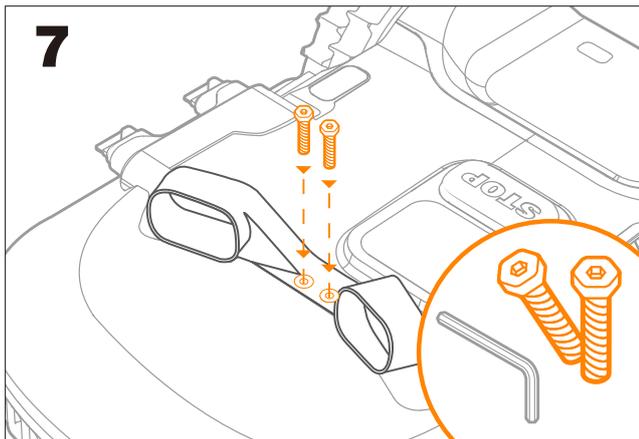
4. Plug ACS connectors into Landroid's connectors



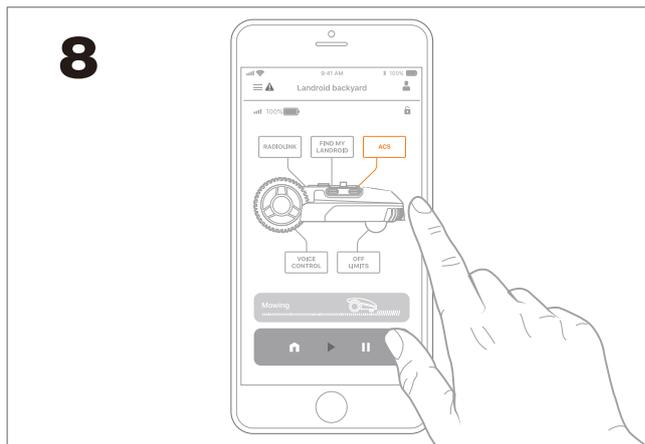
5. Insert ACS into the slot



6. Arrange cables and connectors tidily (as shown in the image)

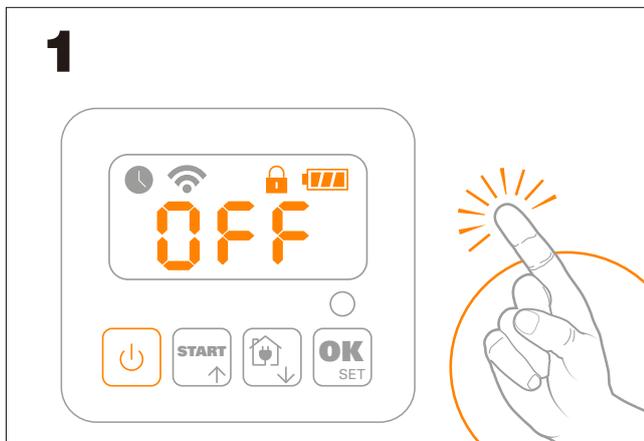


7. Secure ACS with the provided screws

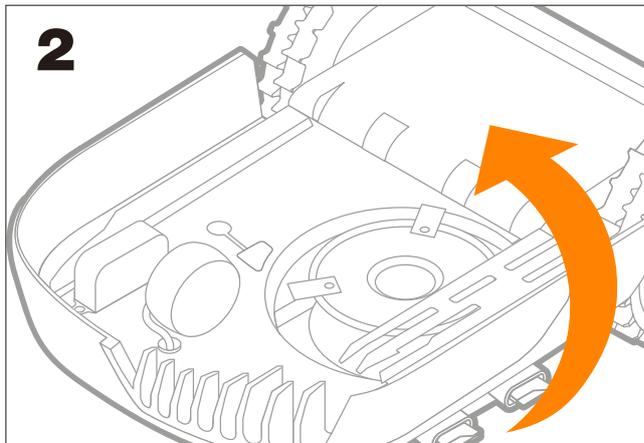


8. The ACS icon is now active. Touch it to see the status and to activate/disactivate the option. If the Status shows "error" contact our support team at <https://support.worx-europe.com>

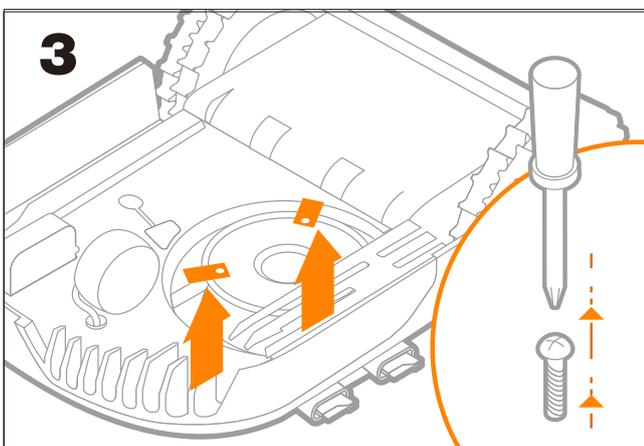
**Landroid M 500 (WR141E)**



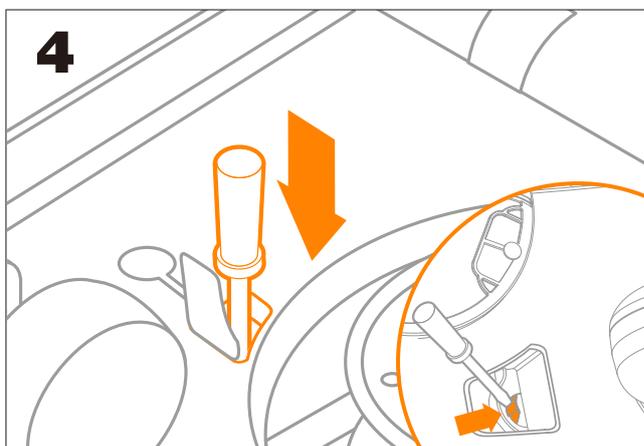
1. Turn off Landroid



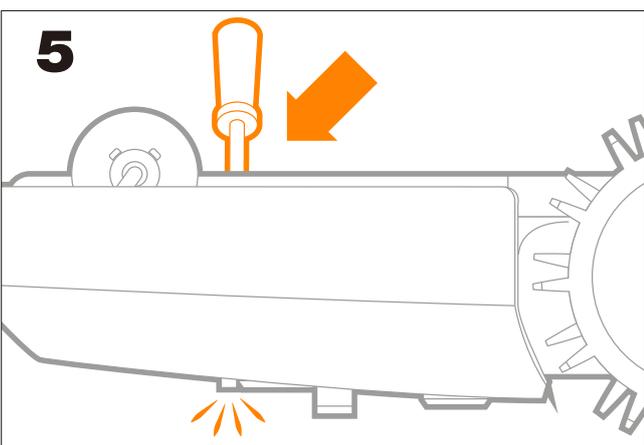
2. Turn Landroid upside down



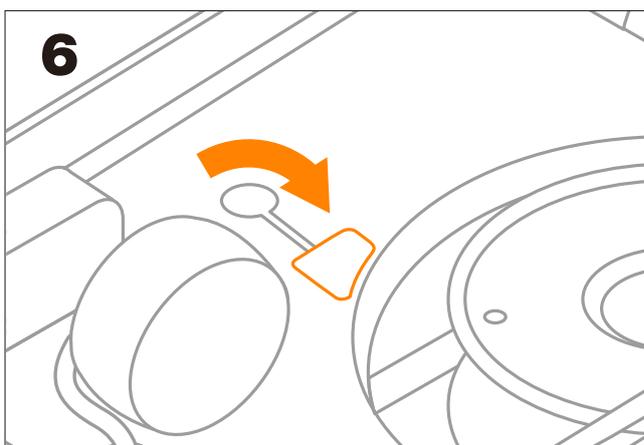
3. Remove Landroid blades using a screwdriver – wear gloves to avoid injury



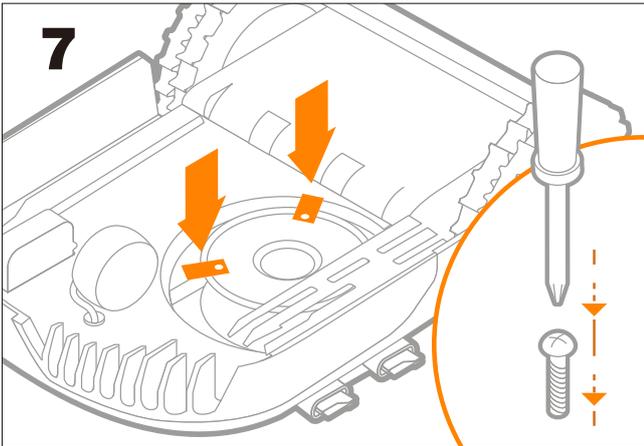
4. Open the small flap as shown in the picture



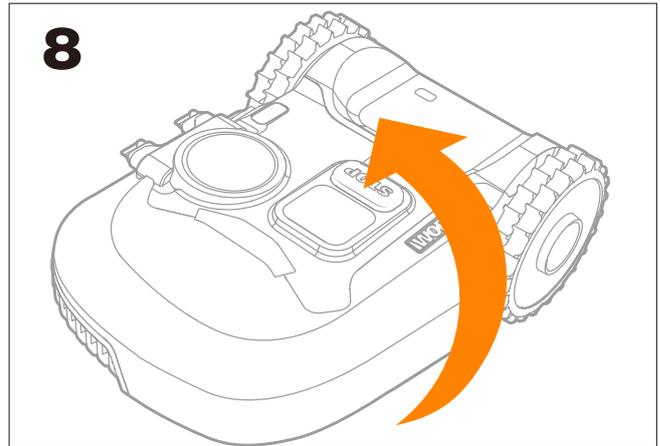
5. Gently push in order to open the housing on the other side of Landroid



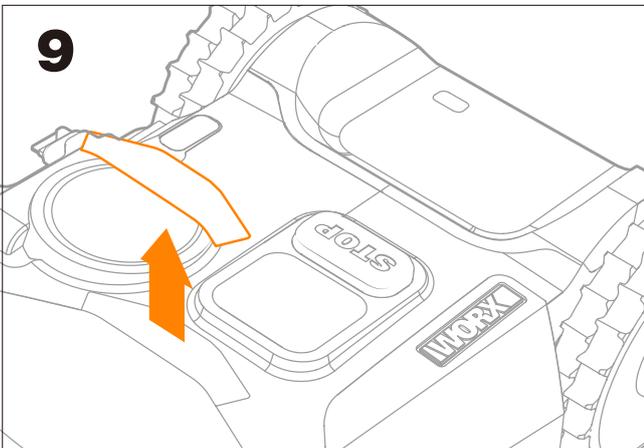
6. Close the flap



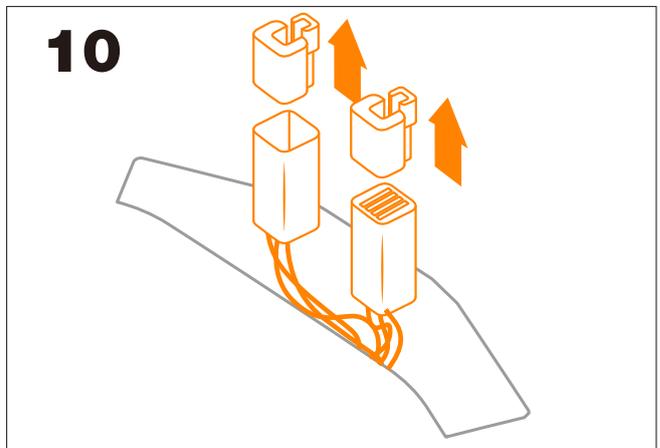
7. Screw Landroid blades back in



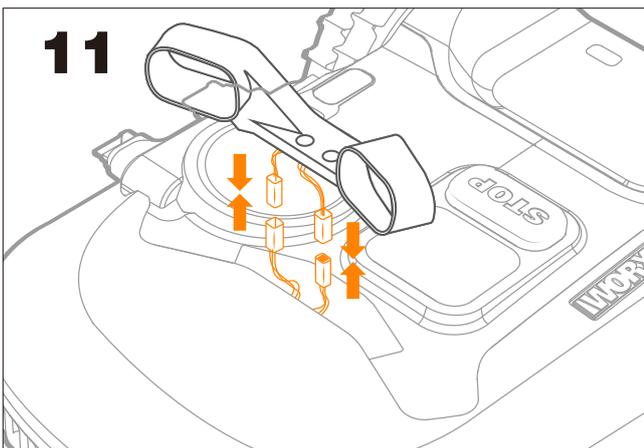
8. Turn Landroid back to its position



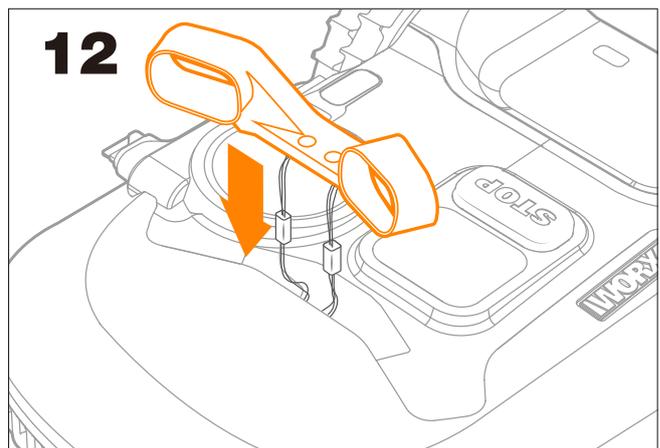
9. Remove the cover slot



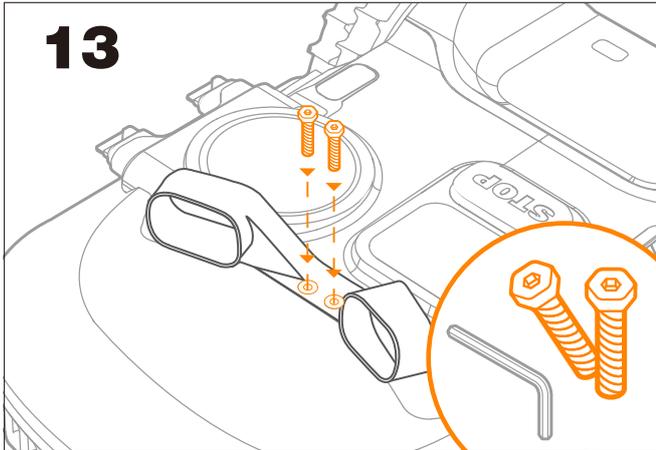
10. Remove Landroid connector's inner protection



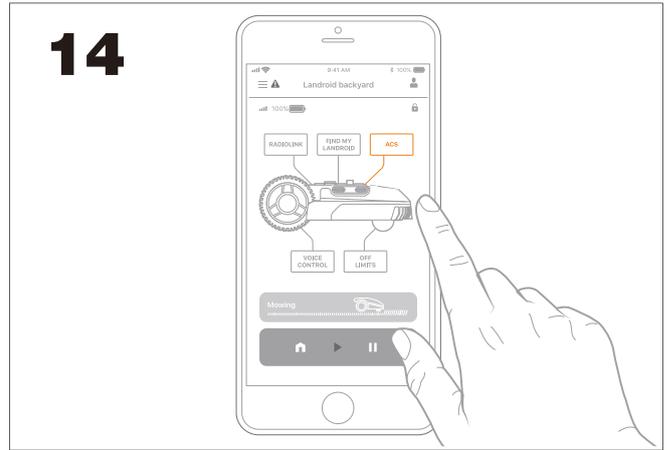
11. Plug ACS connectors into Landroid's connectors



12. Insert ACS into the slot

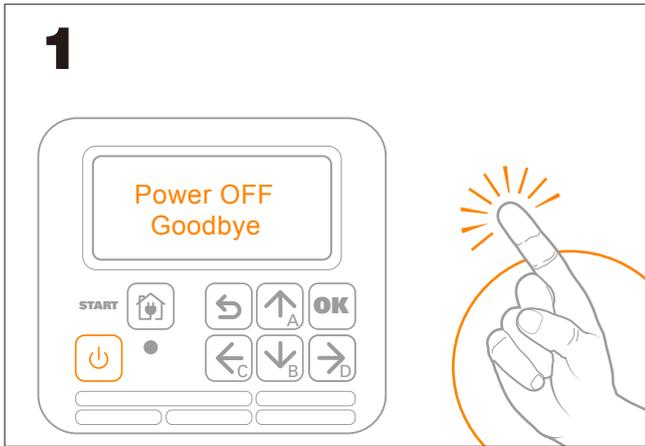


13. Secure ACS with the provided screws

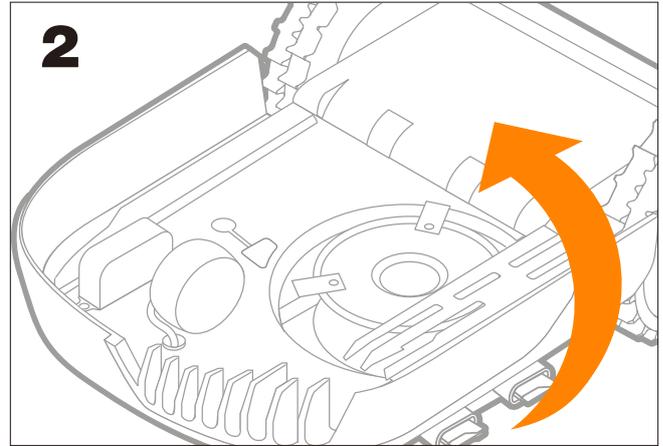


14. The ACS icon is now active. Touch it to see the status and to activate/disactivate the option. If the Status shows “error” contact our support team at <https://support.worx-europe.com>

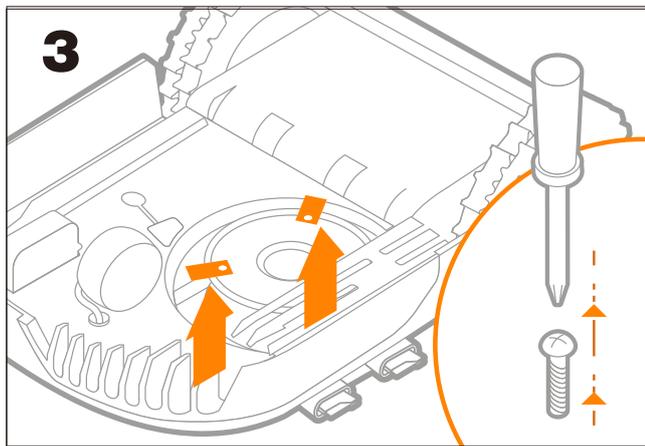
**Landroid M 700 (WR142E)  
Landroid M 1000 (WR143E)**



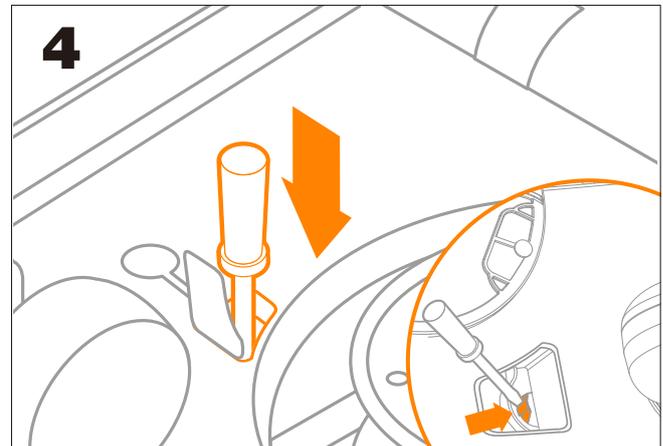
1. Turn off Landroid



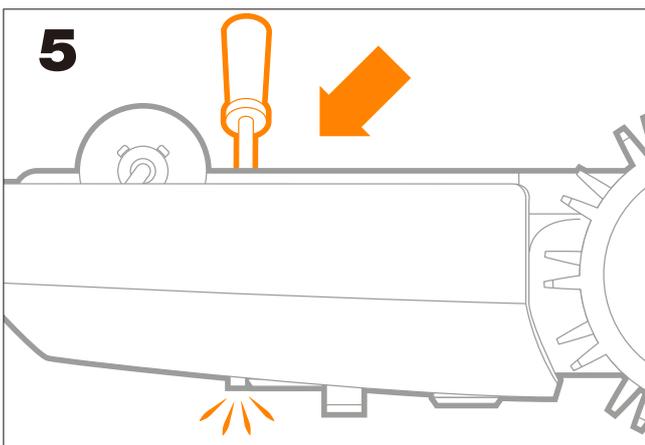
2. Turn Landroid upside down



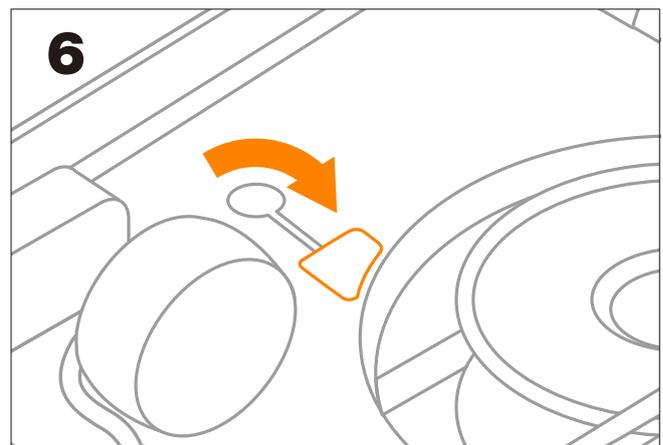
3. Remove Landroid blades using a screwdriver – wear gloves to avoid injury



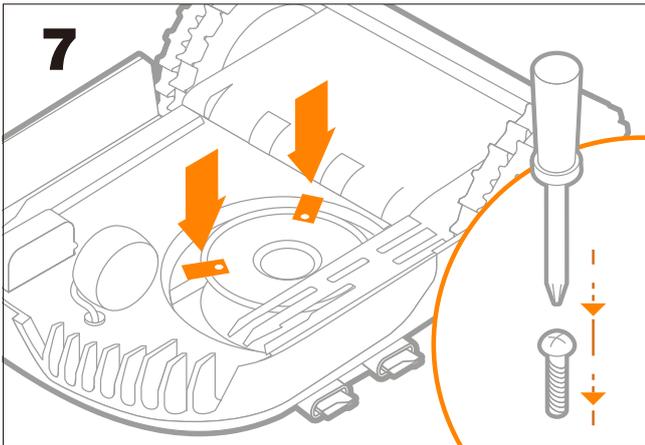
4. Open the small flap as shown in the picture



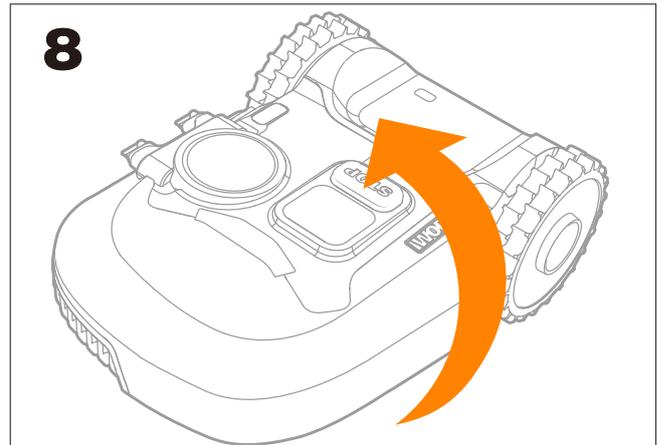
5. Gently push in order to open the housing on the other side of Landroid



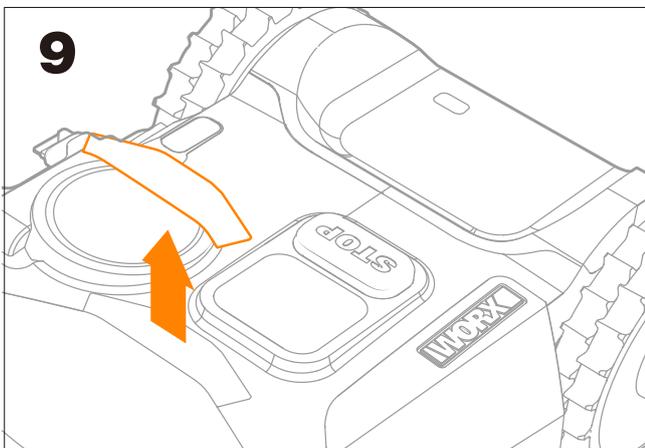
6. Close the flap



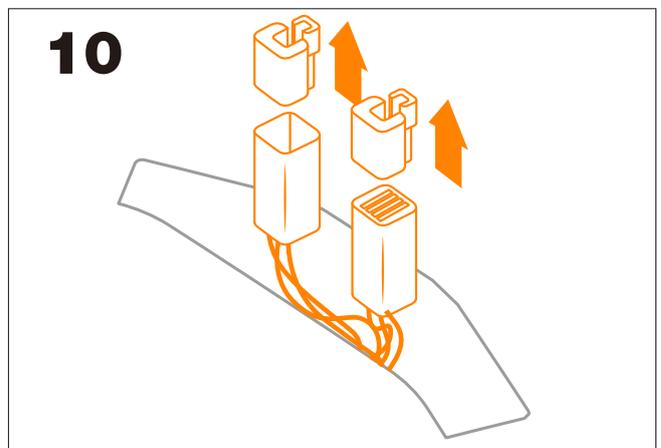
7. Screw Landroid blades back in



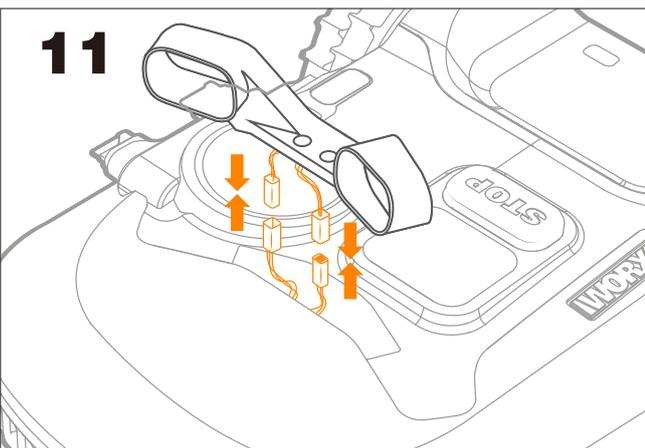
8. Turn Landroid back to its position



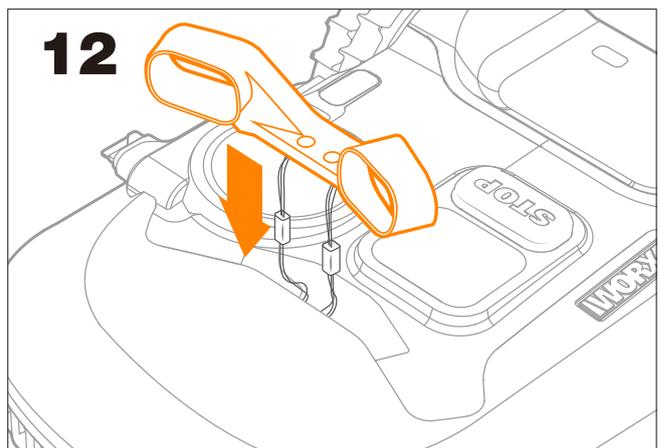
9. Remove the slot cover



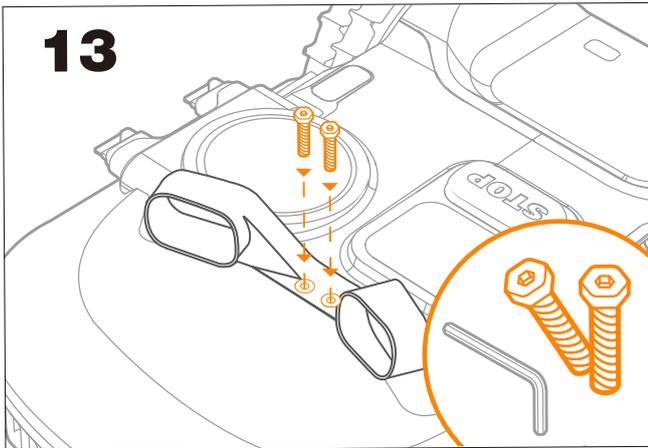
10. Remove Landroid connector's inner protection



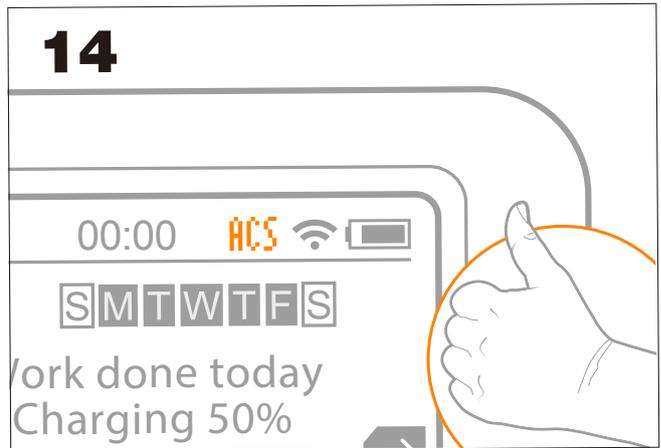
11. Plug ACS connectors into Landroid's connectors



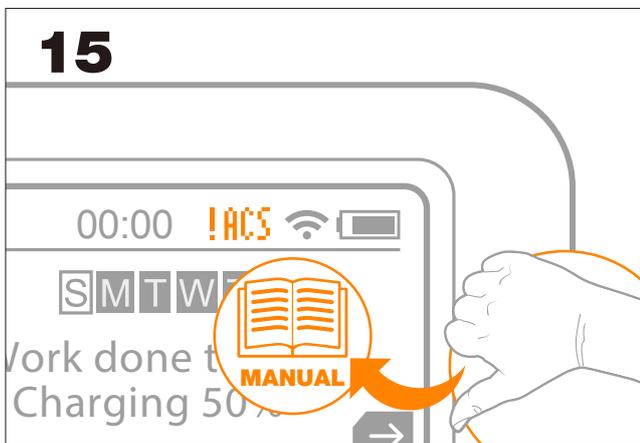
12. Insert ACS into the slot



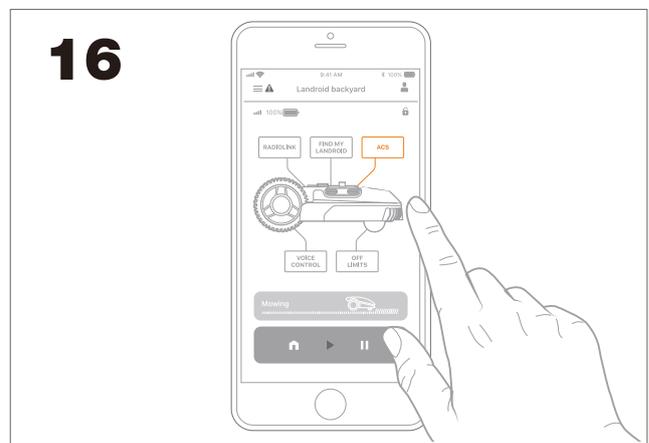
13. Secure ACS with the provided screws



14. "ACS" appears on Landroid screen: ACS is installed correctly

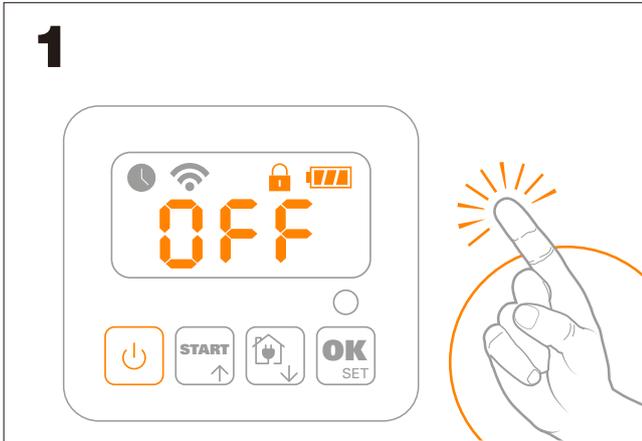


15. "!ACS" appears on Landroid screen: please double check that ACS sensors are clean - if not proceed to clean them with a soft cloth. If the issue persists, please go to <https://account.worxlandroid.com/>, access your profile and open a ticket using the form.

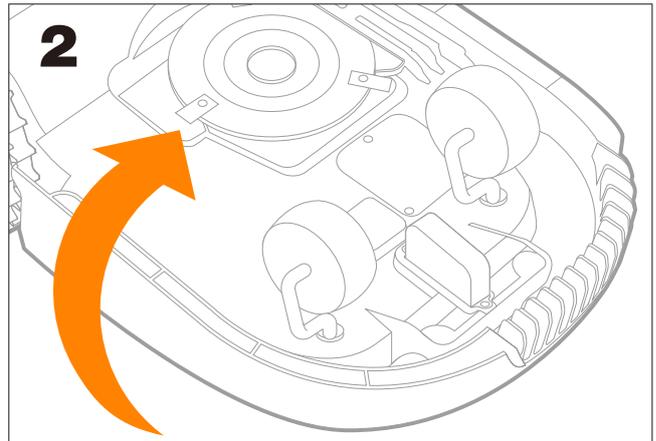


16. The ACS icon is now active. Touch it to see the status and to activate/disactivate the option. If the Status shows "error" contact our support team at <https://support.worx-europe.com>

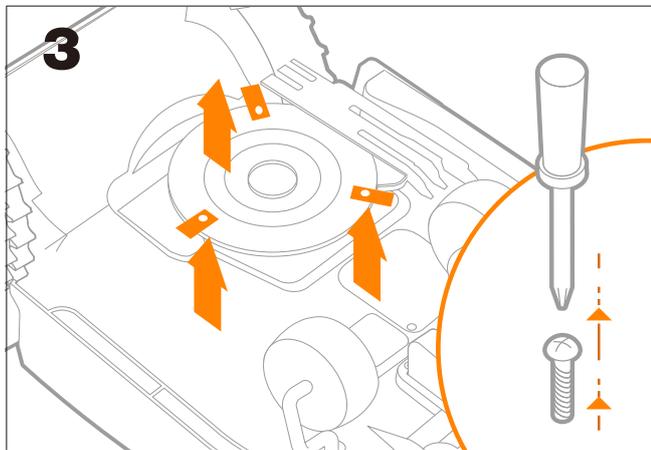
**Landroid L1000 (WR147E)**



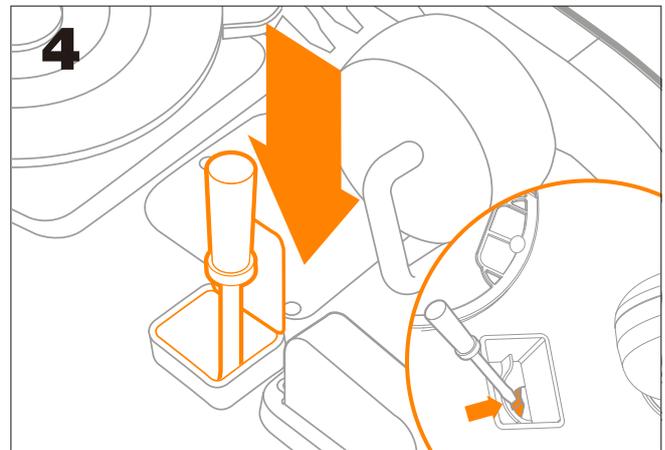
1. Turn off Landroid



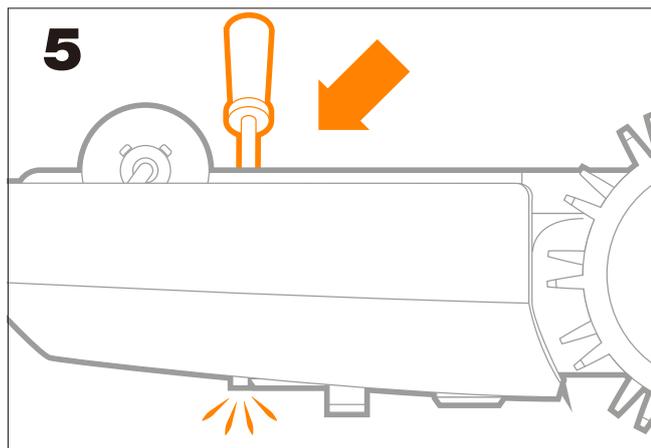
2. Turn Landroid upside down



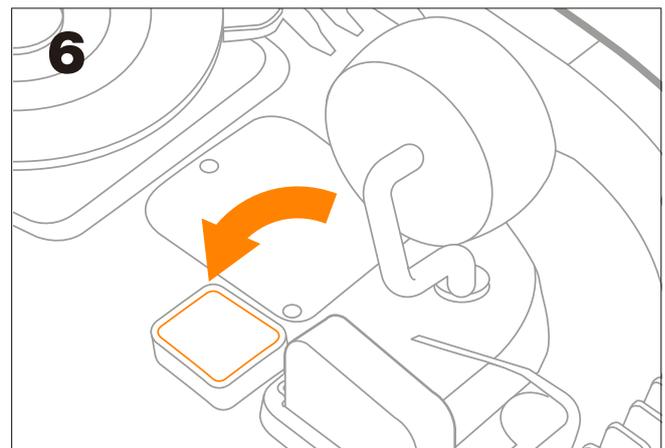
3. Remove Landroid blades using a screwdriver – wear gloves to avoid injury



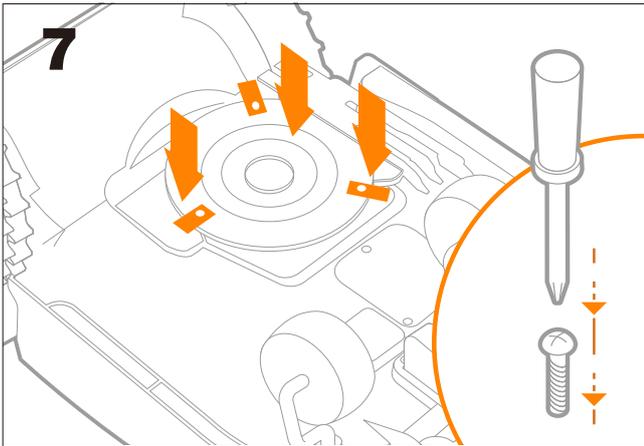
4. Open the small flap as shown in the picture



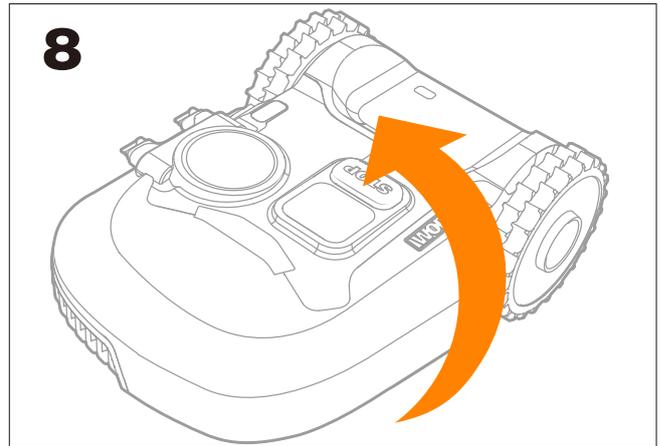
5. Gently push in order to open the housing on the other side of Landroid



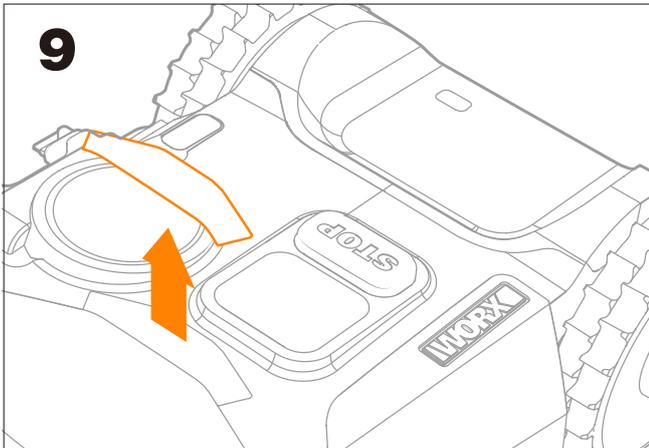
6. Close the flap



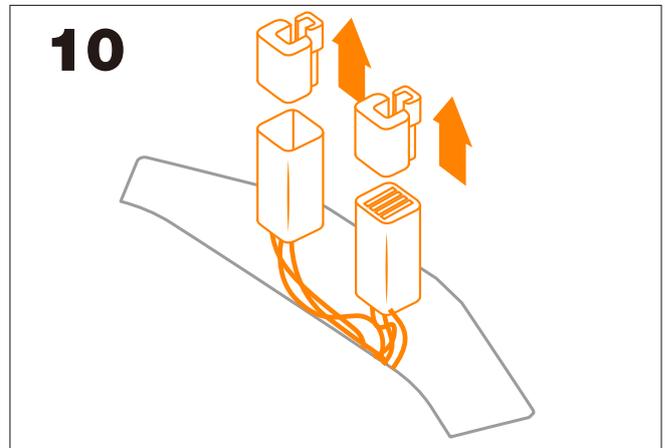
7. Screw Landroid blades back in



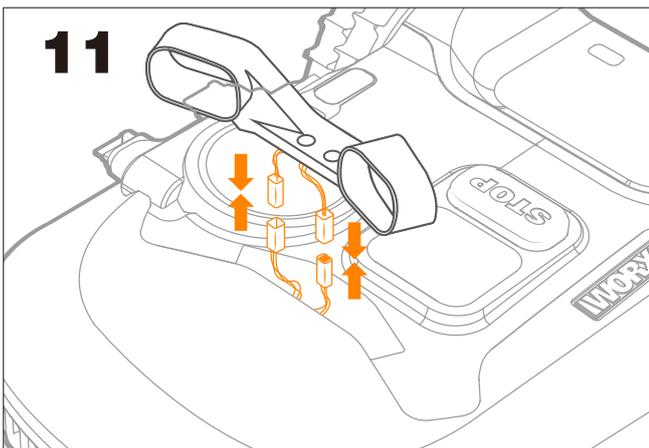
8. Turn Landroid back to its position



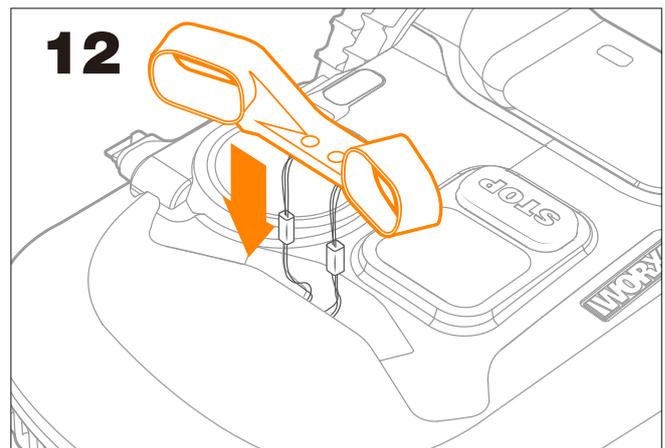
9. Remove the slot cover



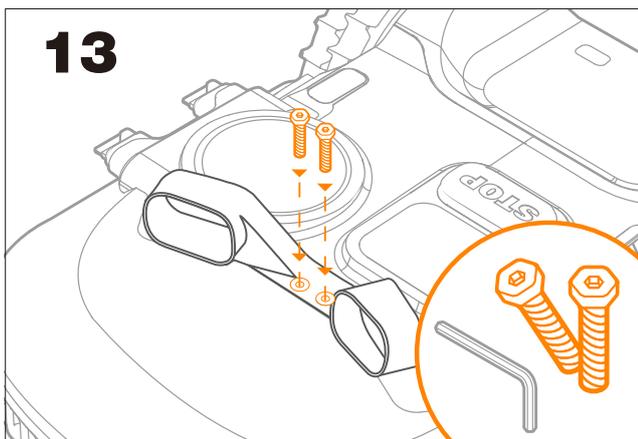
10. Remove Landroid connector's inner protection



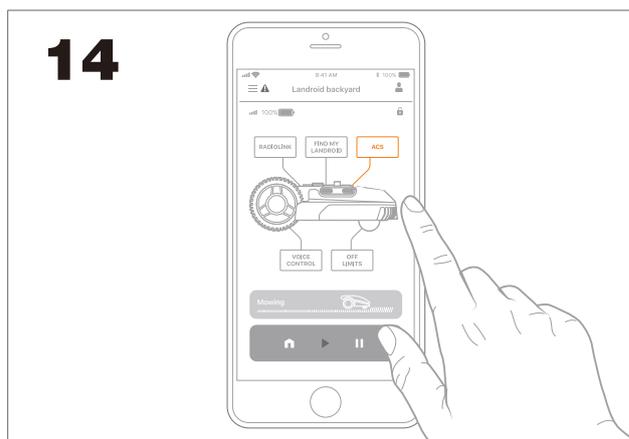
11. Plug ACS connectors into Landroid's connectors



12. Insert ACS into the slot

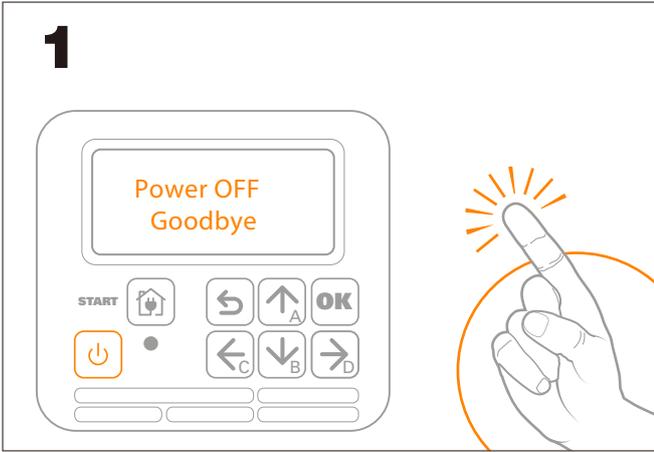


13. Secure ACS with the provided screws

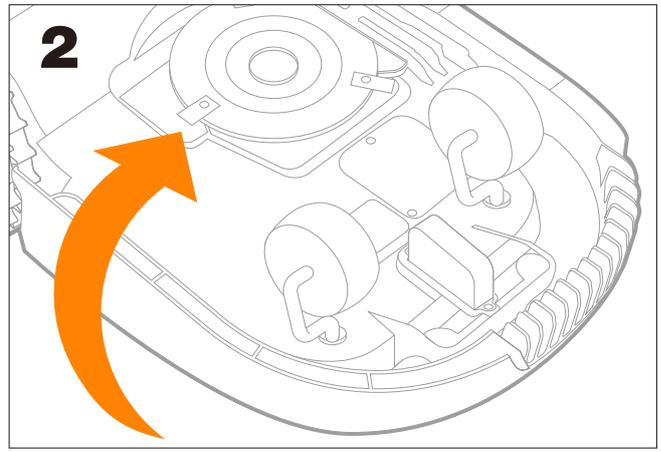


14. The ACS icon is now active. Touch it to see the status and to activate/disactivate the option. If the Status shows “error” contact our support team at <https://support.worx-europe.com>

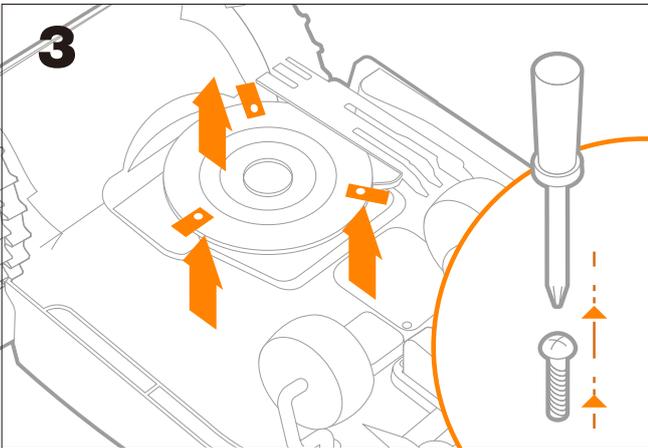
**Landroid L1500 (WR153E)**  
**Landroid L 2000 (WR155E)**



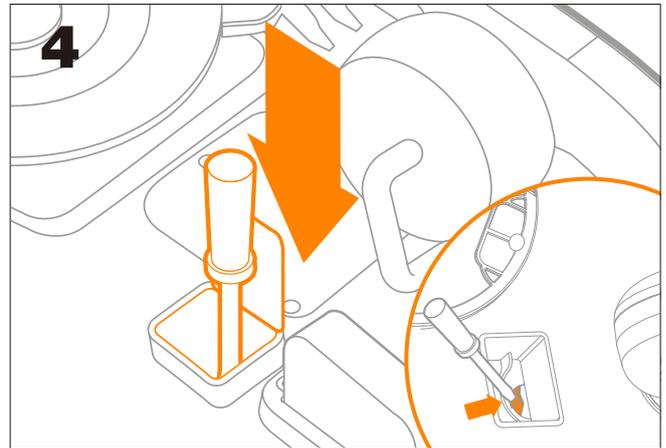
1. Turn off Landroid



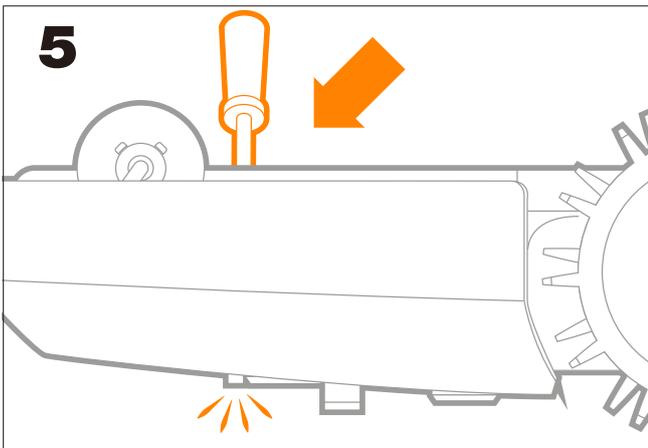
2. Turn Landroid upside down



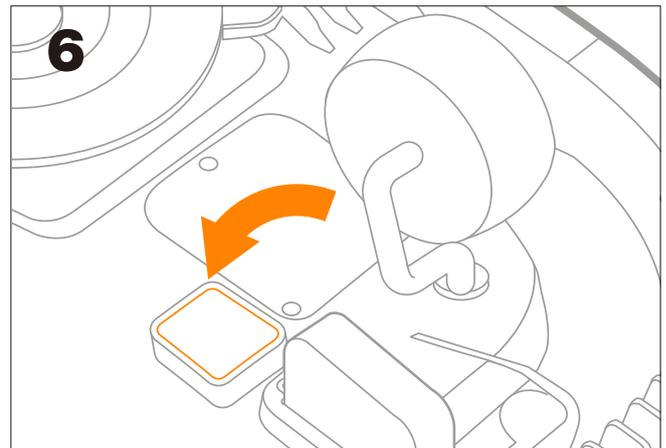
3. Remove Landroid blades using a screwdriver – wear gloves to avoid injury



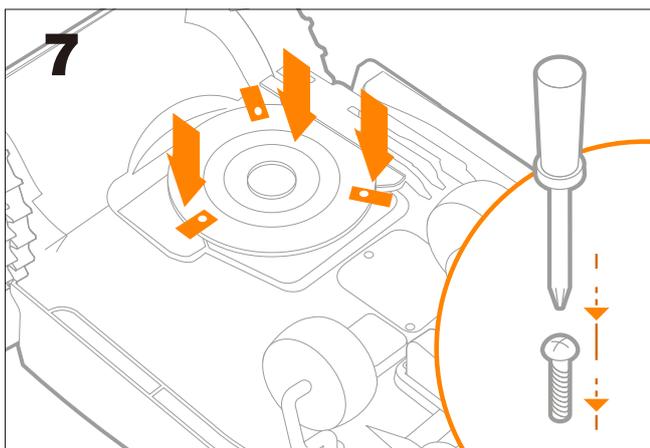
4. Open the small flap as shown in the picture



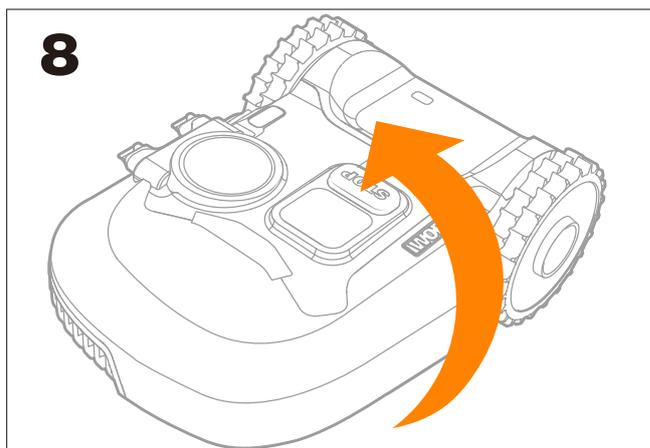
5. Gently push in order to open the housing on the other side of Landroid



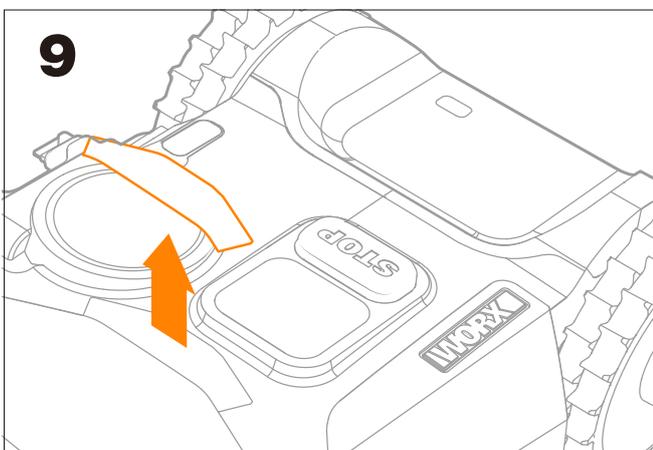
6. Close the flap



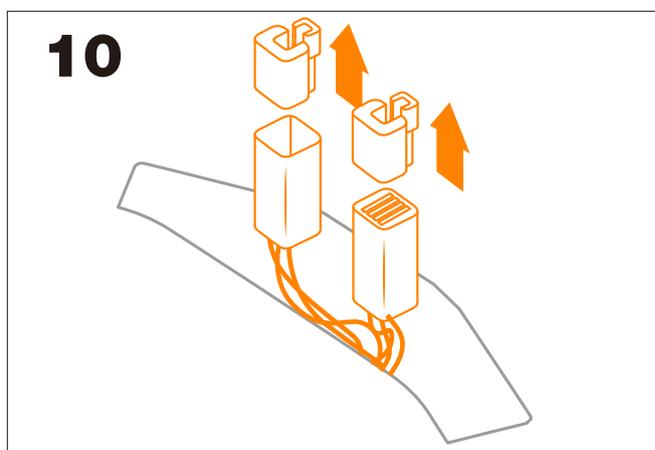
7. Screw Landroid blades back in



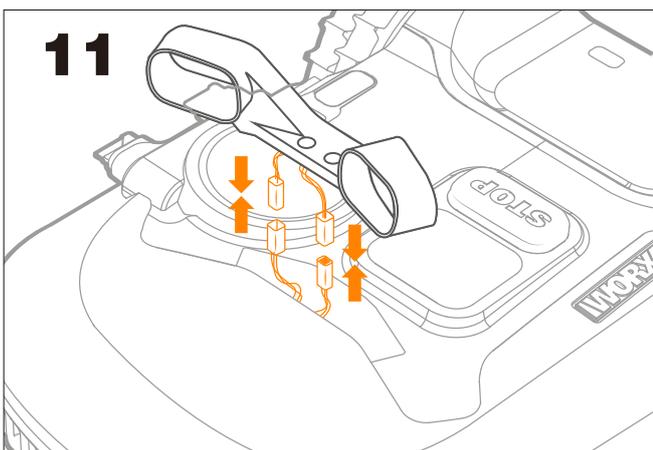
8. Turn Landroid back to its position



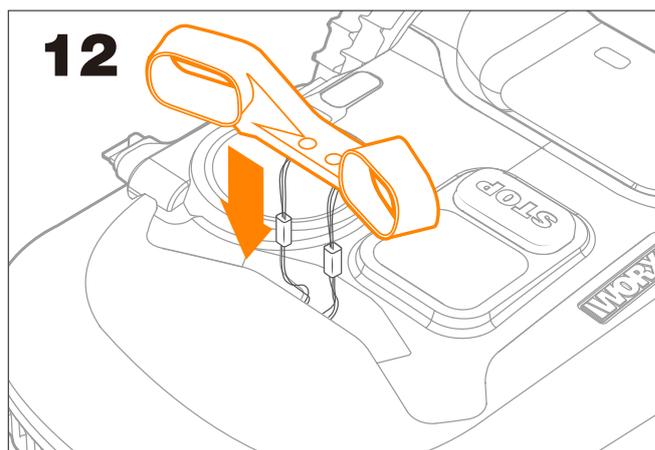
9. Remove the slot cover



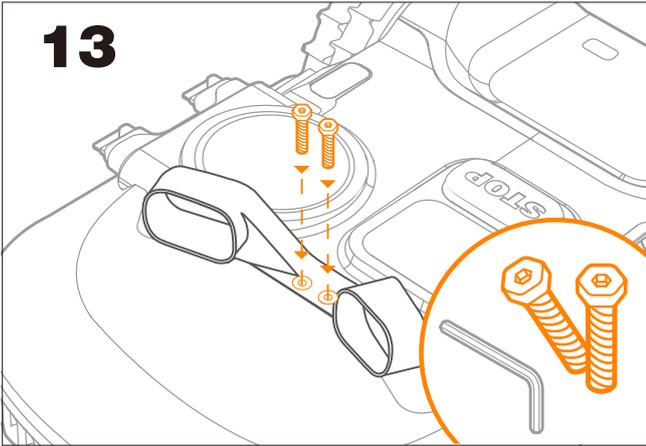
10. Remove Landroid connector's inner protection



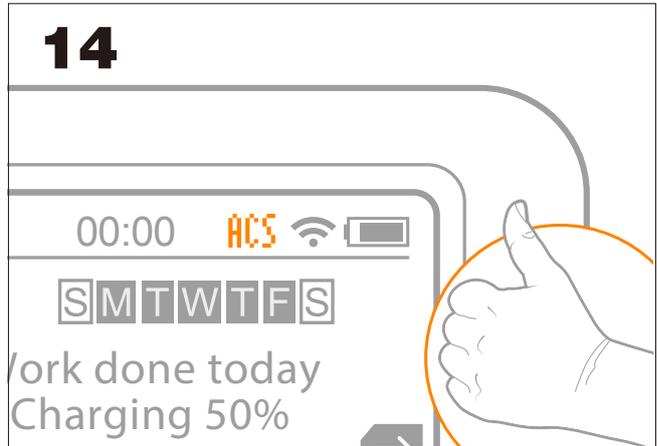
11. Plug ACS connectors into Landroid's connectors



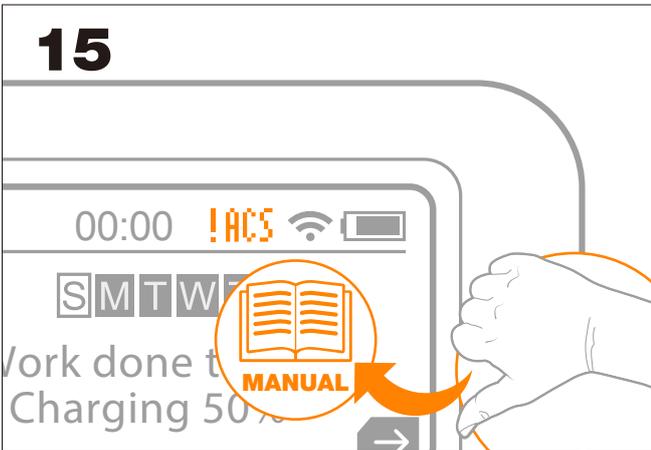
12. Insert ACS into the slot



13. Secure ACS with the provided screws



14. "ACS" appears on Landroid screen: ACS is installed correctly



15. "!ACS" appears on Landroid screen: please double check that ACS sensors are clean - if not proceed to clean them with a soft cloth. If the issue persists, please go to <https://account.worxlandroid.com/>, access your profile and open a ticket using the form.



16. The ACS icon is now active. Touch it to see the status and to activate/disactivate the option. If the Status shows "error" contact our support team at <https://support.worx-europe.com>

## Troubleshooting

Make sure your ACS module is securely installed and follow the actions below if your Landroid® does not operate correctly. If these do not identify and correct the problem, please go to <https://account.worxlandroid.com/>, access your profile and open a ticket using the form.

| Symptom                                                             | Cause                                                                                                       | Action                                                                                                                                                            |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Landroid® fails to avoid obstacles.                                 | There is some dust on the cover or on the ultrasonic sensor.                                                | Keep the cover and the ultrasonic sensor clean.                                                                                                                   |
|                                                                     | Some obstacles shape (shrubs, inclined trees, stones...) prevent the echo signal being able to return back. | This is normal, no action needed.                                                                                                                                 |
|                                                                     | The ACS is turned off when Landroid® returns to the charging base along the boundary wire.                  |                                                                                                                                                                   |
|                                                                     | If Landroid® hits an obstacle or intercepts the perimeter wire, the ACS will be disabled for 2 - 8 seconds. |                                                                                                                                                                   |
|                                                                     | The ACS module automatically turns off in case of rain, because heavy rain is recognized as obstacle.       |                                                                                                                                                                   |
|                                                                     | The ACS is deactivated                                                                                      | Enable ACS by using App ACS settings, or LCD display settings. On 7-segments display it is not possible to act on ACS settings directly, then please use the App. |
| Landroid® moves abnormally, runs in circles or turns right or left. | The ACS module is not properly installed.                                                                   | Make sure the ACS module is securely installed with no shaking.                                                                                                   |
|                                                                     | There is some dust on the cover or on the ultrasonic sensor.                                                | Keep the cover free and clean.                                                                                                                                    |
|                                                                     | The cover is severely deformed.                                                                             | Contact the service agent to replace a new cover.                                                                                                                 |
|                                                                     | The grass is long.                                                                                          | No action needed, day-by-day long grass will be mowed and Landroid® will come back to its standard mowing.                                                        |

## Technical data

|               |     |     |
|---------------|-----|-----|
| Rated Voltage | 20V | Max |
|---------------|-----|-----|

## Declaration of Conformity

We,  
Positec Germany GmbH  
Grüner Weg 10, 50825 Cologne, Germany

Declare that the product  
Description **ACS module**  
Type **WA0860**  
Function **Obstacle avoidance**

Complies with the following Directives:  
**2014/30/EU, 2011/65/EU & (EU)2015/863**

Standards conform to  
**EN 55011, EN 55014-2**

A handwritten signature in black ink is positioned to the left of the CE mark. The signature appears to be 'Allen Ding'. The CE mark consists of the letters 'C' and 'E' in a stylized, bold font.

2020/03/27  
Allen Ding  
Deputy Chief Engineer, Testing & Certification  
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