

Robotic Lawn Mower

>>>>> No Boundary Wire <<<<<

RoboUP®



APP User Guide

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1 APP Download and Installation

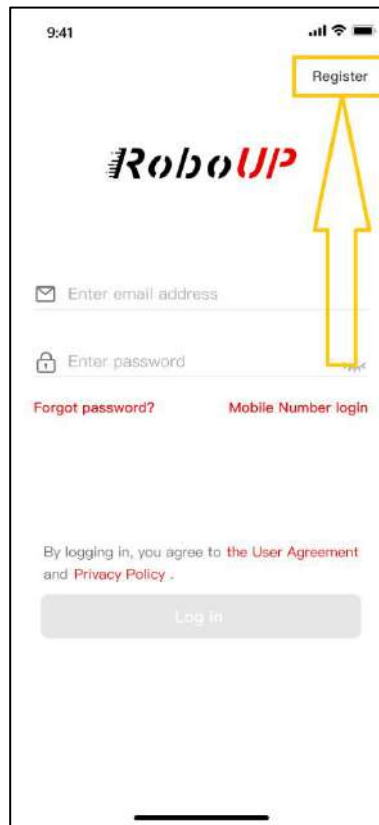
Please scan the following QR code to download the RoboUP APP installation file and follow the pop-ups to install the APP.



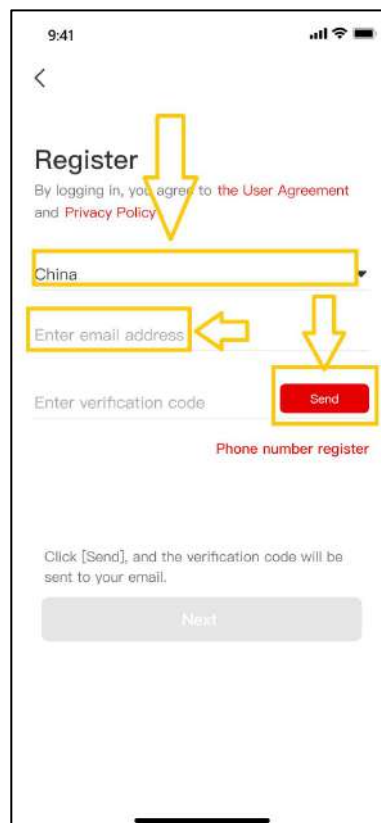
Android/iOS

2 APP Register and Login

- 1) Open the RoboUP APP on your mobile phone, and click the **[Register]** button in the top right corner to enter the registration page.

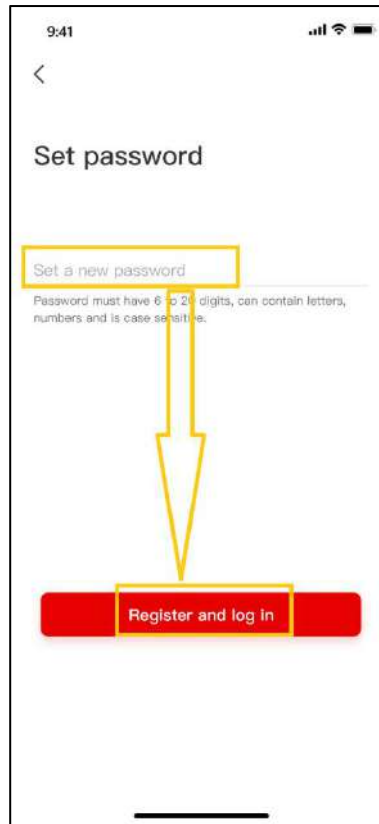


- 2) Select the region or country where you are located and type in an available e-mail address and hit **[Send]** button to receive a verification code.

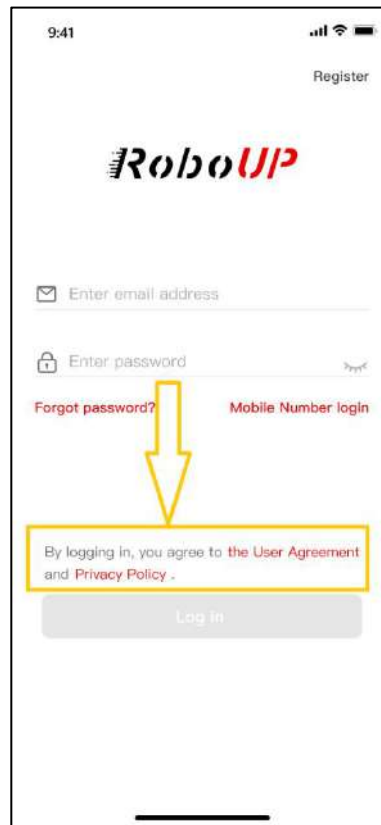


- 3) Please check the verification code in your e-mail inbox and type it in the APP, then hit the **[Next]**.

- 4) Set a login password for your account' s security, and tap the [**Register and log in**] button] to go back to the login page.



- 5) Type in your account with the password and check the [**I have read and agree to the User Agreement and Privacy Policy**] after you read and agree to it, then tap the [**Next**] to log in.

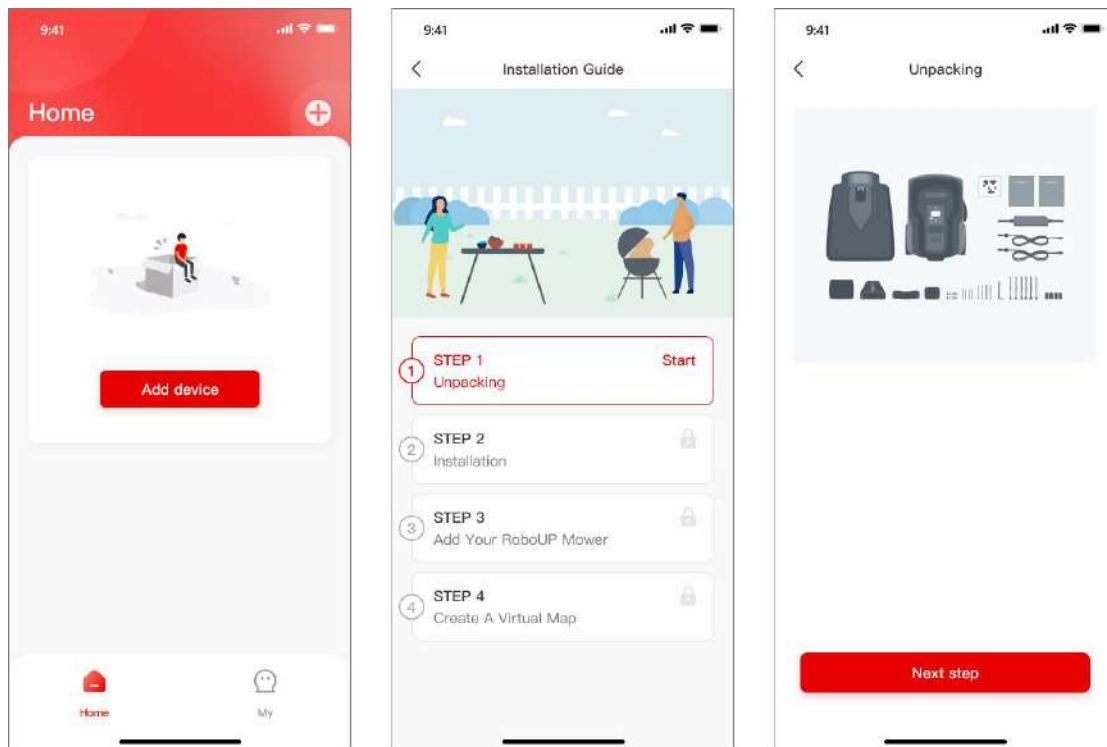


3 Basic Installation

The basic installation guide will pop up when add a device in the APP.

3.1 Step 1: Unpacking

- 1) Click the **[Add device]** on the home page to enter **[Installation Guide]**.
- 2) Tap the **[Step 1: Unpacking]** to enter the unpacking page to check if any parts are missing. If any parts are missing, please contact the RoboUP service team: service@roboup.tech; if nothing is missing, you can click the **[Next Step]**.



3.2 Step 2: Installation

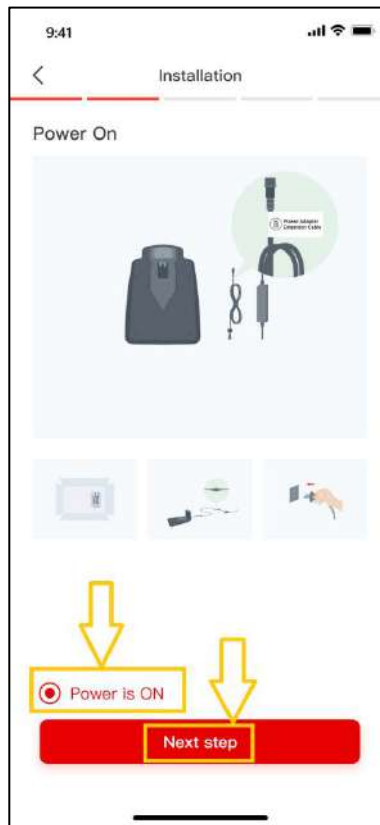
Click **[Step 2: Installation]** to install the charging station and RTK base station according to the step prompts and animations.



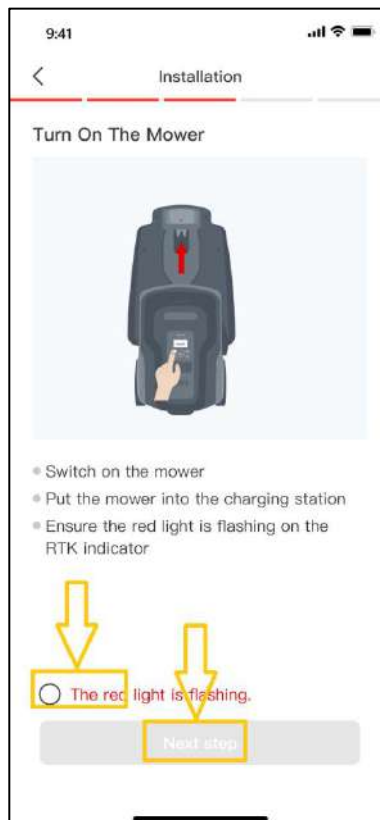
- 1) **Find a suitable location:** It is required to be flat without obstacles within 2m of the charging station, and it should be with good Wi-Fi coverage. After the operation is completed, return to the APP and check the at the bottom, and then click **[Next step]**.



- 2) **Power on the charging station:** Take out the power extension cord (Please note there are 2 extension cords, one is for the charging station and another is for the RTK base station) and power adapter, connect one end of the extension cord to the power adapter, and the other end to the charging station, then plug the power adapter into the socket to power on the charging station. After the operation is completed, return to the APP and check the at the bottom, and then click **[Next step]**.

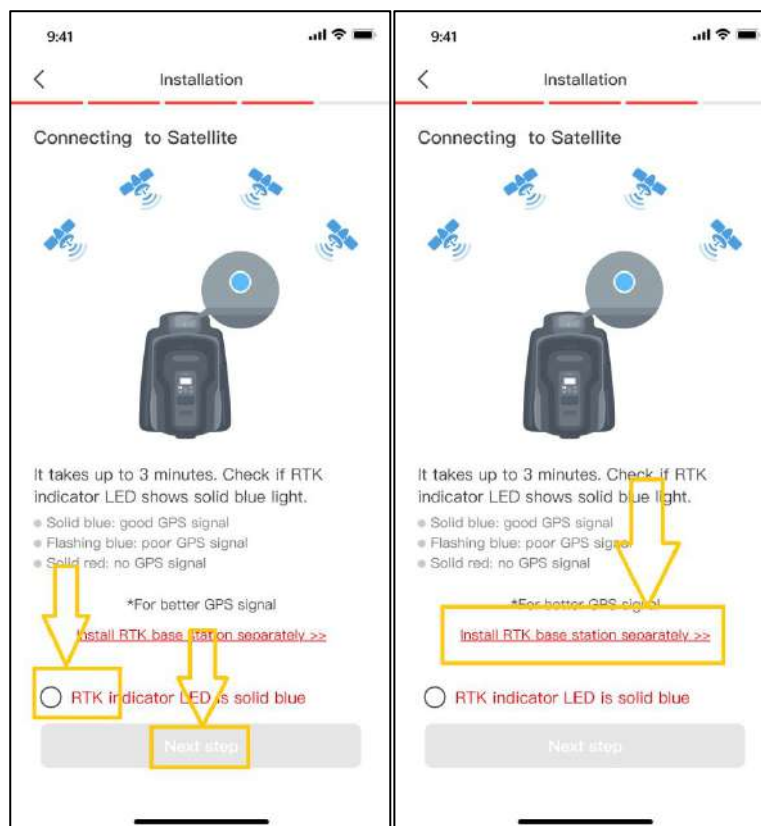


3) **Turn on the mower:** Long press the power button on the mower to power it on, then put the mower into the charging station. After the operation is completed, return to the APP and check the at the bottom, and then click **[Next step]**.



4) **Connecting to Satellite:** In order to obtain more satellite signals, please wait for 3 minutes to check if the signal indicator of the RTK base station turns solid blue. After the operation is completed, return to the APP and check the at the bottom, and then click **[Next step]** to enter the next step.

If the signal indicator of the RTK base station cannot turn blue for a long time, detach the RTK base station from the charging station and install it in another proper location. For the detailed steps, please click and view **[Install RTK base station separately]**.



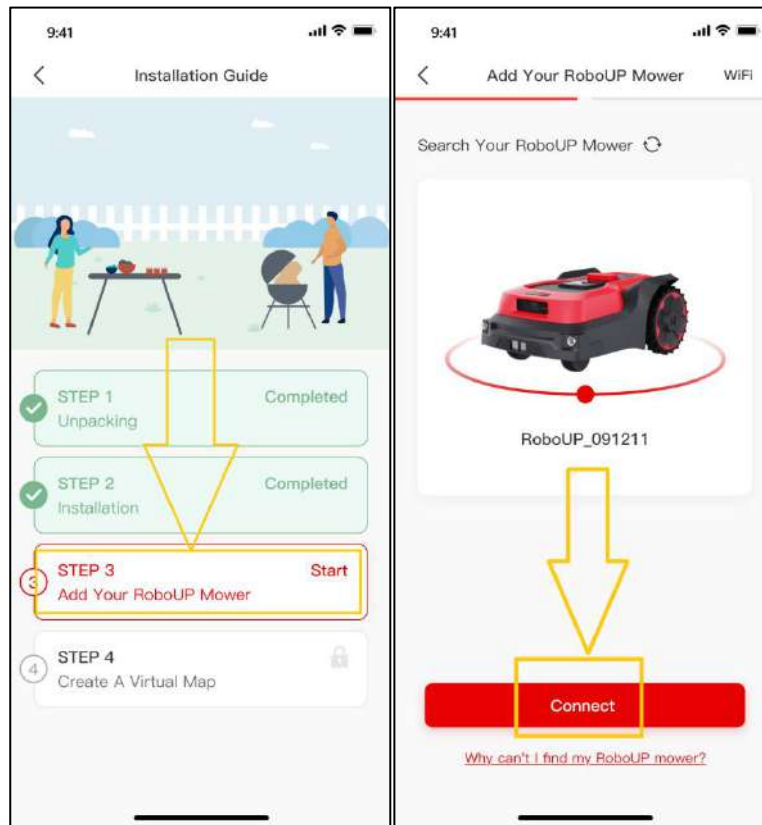
5) **Fix the charging station:** Use a wrench and fixing nails to fix the charging station on the ground. After the operation is completed, return to the APP and check the at the bottom, and then click **[Done]** to return to **[Installation Guide]** page.



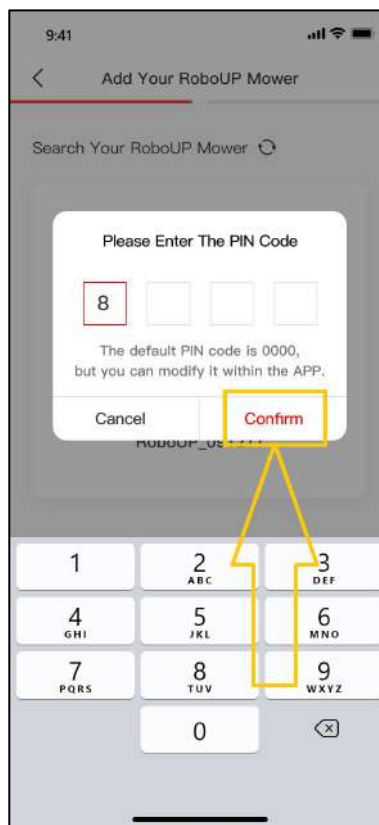
3.3 Step 3: Add Your RoboUP Mower

There are two methods to connect your RoboUP mower on the APP: **Bluetooth pairing and Wi-Fi pairing**. Bluetooth pairing is a quick connection, while Wi-Fi pairing will support more functions, like factory default and OTA firmware upgrade. Here is the introduction of the Bluetooth pairing, for the Wi-Fi pairing, please refer to the tutorial on Wi-Fi connection.

- 1) Click [**Step 3: Add your RoboUP Mower**] to enter the Bluetooth page. If the device is found, click [**Connect**]; if the device cannot be found, click [**Why can't I find my RoboUP mower?**] to troubleshoot.



2) Enter the PIN code of the RoboUP mower (the default is 0000), and click **[Confirm]** to connect to the Bluetooth of the mower.



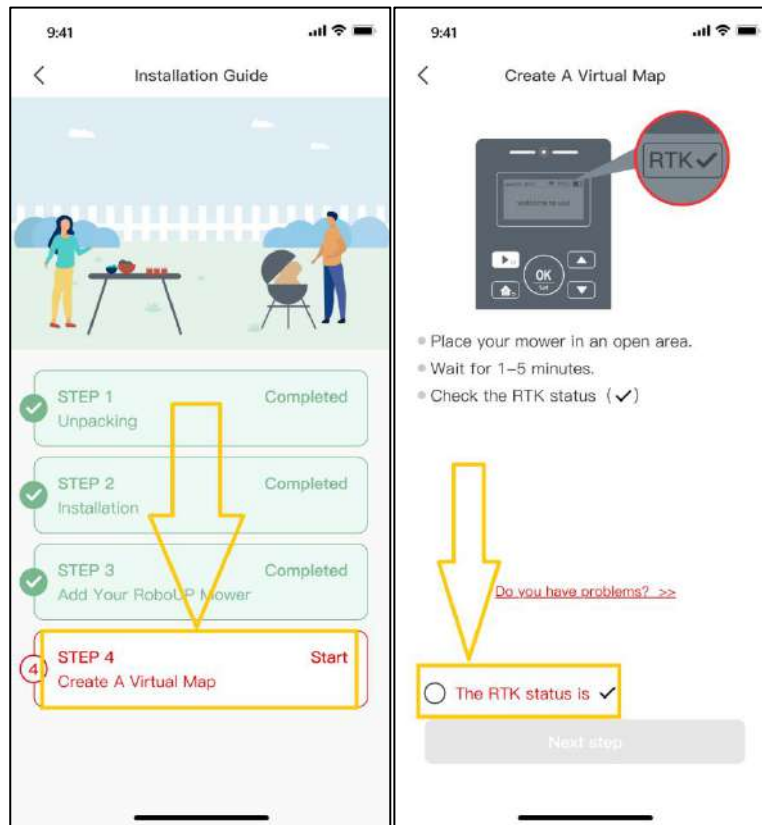
3) After the connection is successful, click **[Done]** to return to the **[Installation Guide]** page.



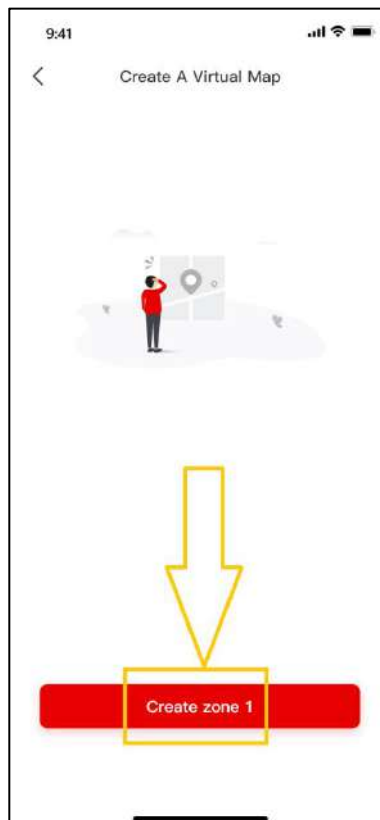
3.4 Step 4: Create a Virtual Map

3.4.1 Create the main boundary

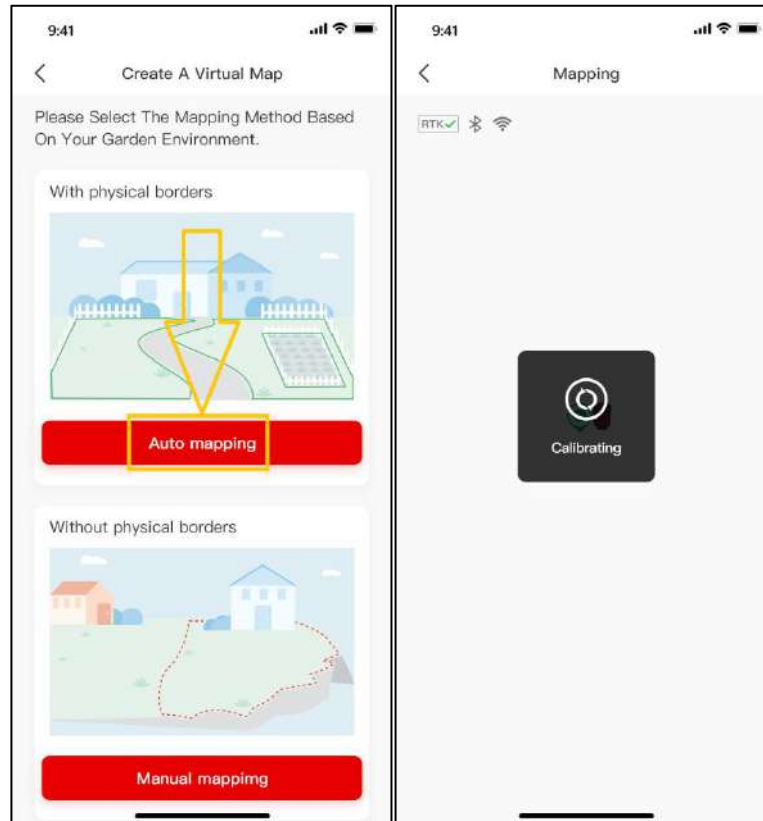
- 1) Click [**Step 4: Create a virtual map**] to enter the mapping page, and check if the RTK icon on the UI is [✓]: if yes, please check the at the bottom, and then click [**Next step**].

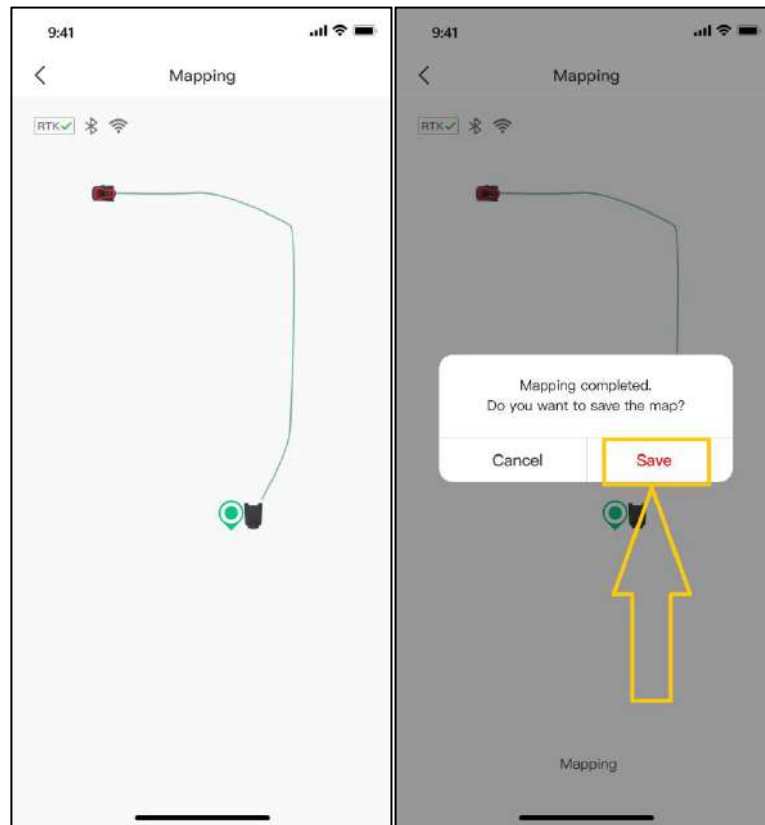


2) Build the main boundary (that is, the map where the charging station is located): click [**Create zone 1**], and choose the method of mapping according to the garden environment: Auto mapping or Manual mapping.



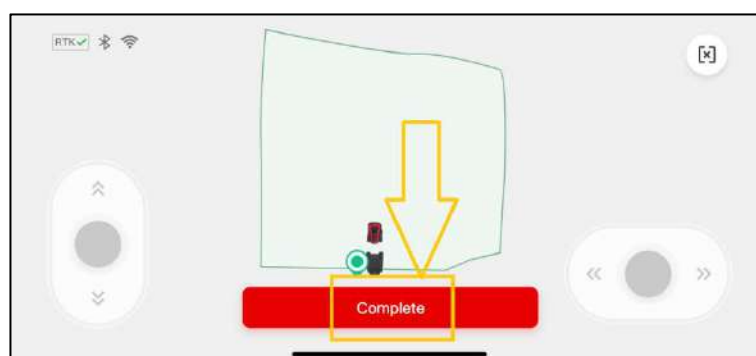
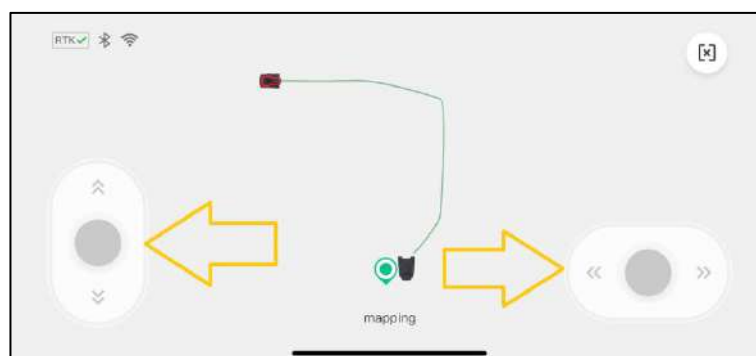
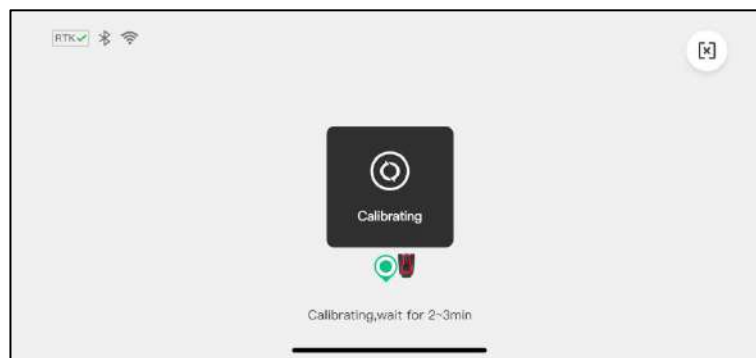
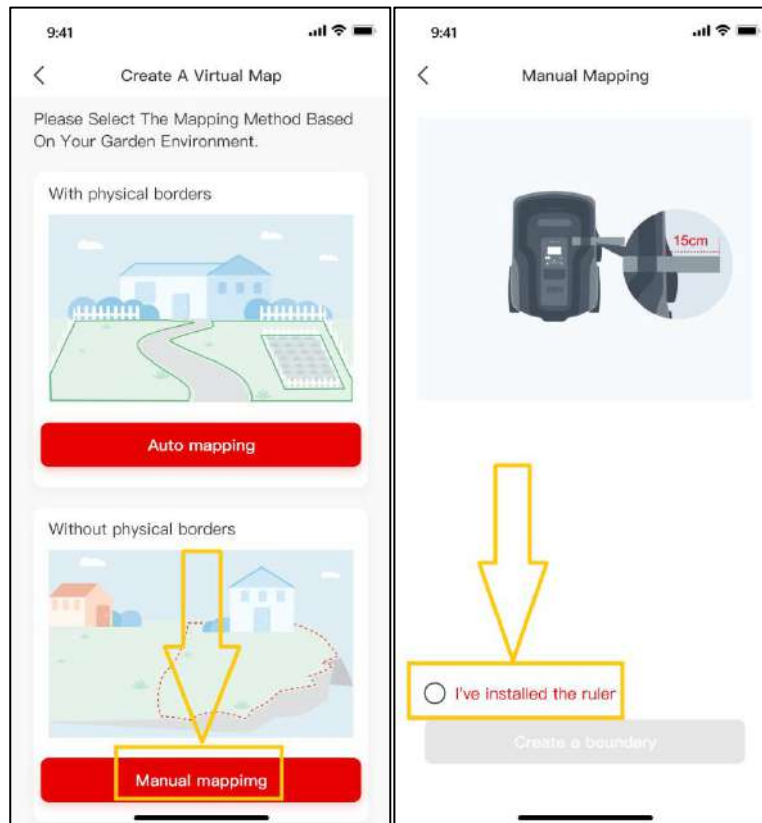
- ① **Auto mapping:** If the garden is with physical borders, like fences, click [**Auto mapping**] to enter the next page, and click [**Start create boundary**], then the mower will do calibration automatically. After the calibrating is finished, it will drive out of the charging station and automatically build a boundary along the edge. After the mower is nearby the charging station, click [**Save**] on the pop-up window prompts to save the boundary.

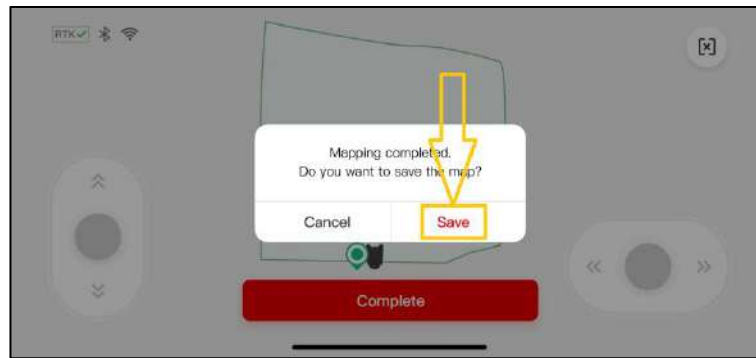




② **Manual mapping:** If the garden is without physical borders, like fences, click [**Manual mapping**] to enter the next page, install the ruler if needed, and check at the bottom, then click [**Create a boundary**] to enter the manual map creation page. After the mower finishes the calibration, slide the controller on the two sides to manually build a boundary along the edge. After the mower is nearby the charging station, click [**Complete**] and [**Save**] on the pop-up window prompts to save the boundary.

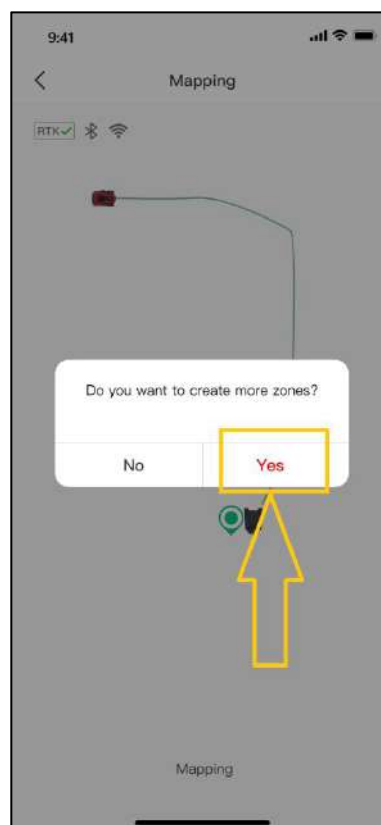
Note: Please follow the mower with 3 meters during the process for a stable connection and smooth mapping.





3.4.2 Create a secondary boundary or more boundaries

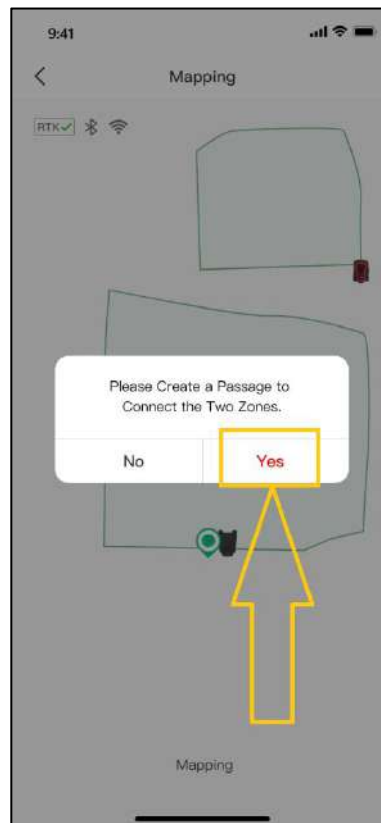
If there are more than 2 areas or gardens, click **[Yes]** to continue to create more boundaries. On the page, slide the controller to remote control the mower to arrive at the start point, then click **[Yes, the mower has arrived]** to the next page. Refer to the *Create the main boundary* to select the proper method to do the mapping.



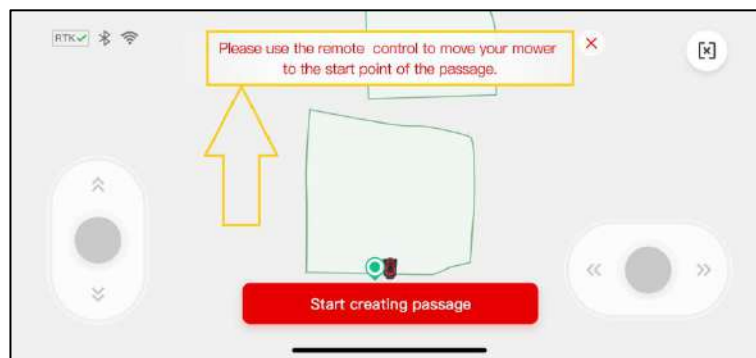
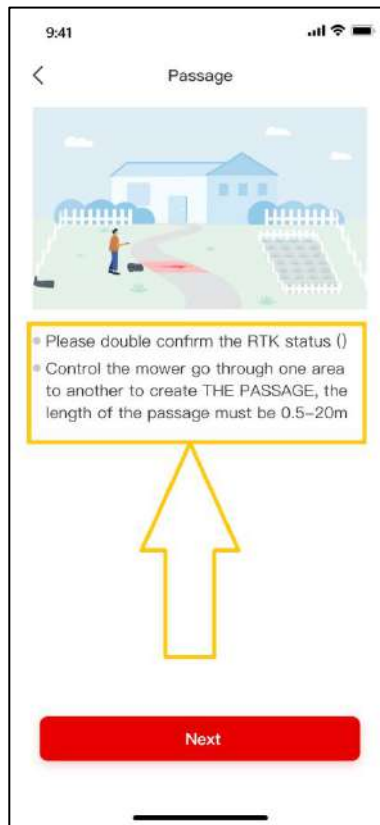


3.4.3 Create passages

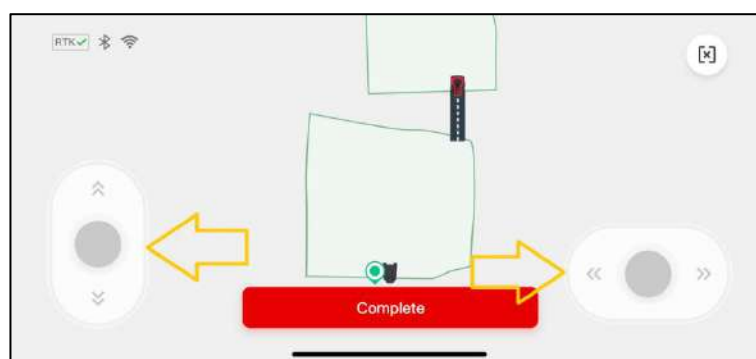
After the secondary boundary has been created, please click the **[Yes]** on the pop-up prompts **[Please Create a Passage to Connect the Two Zones]** to build a passage to link the two boundaries if there is any proper physical passage for the mower to pass by.



- 1) Make sure the length of the physical passage is between 0.5-20 meters, then click **[Next]** to enter the landscape page. Before tapping **[Start creating passage]**, slide the controller to control the mower to move to the start point of the passage.

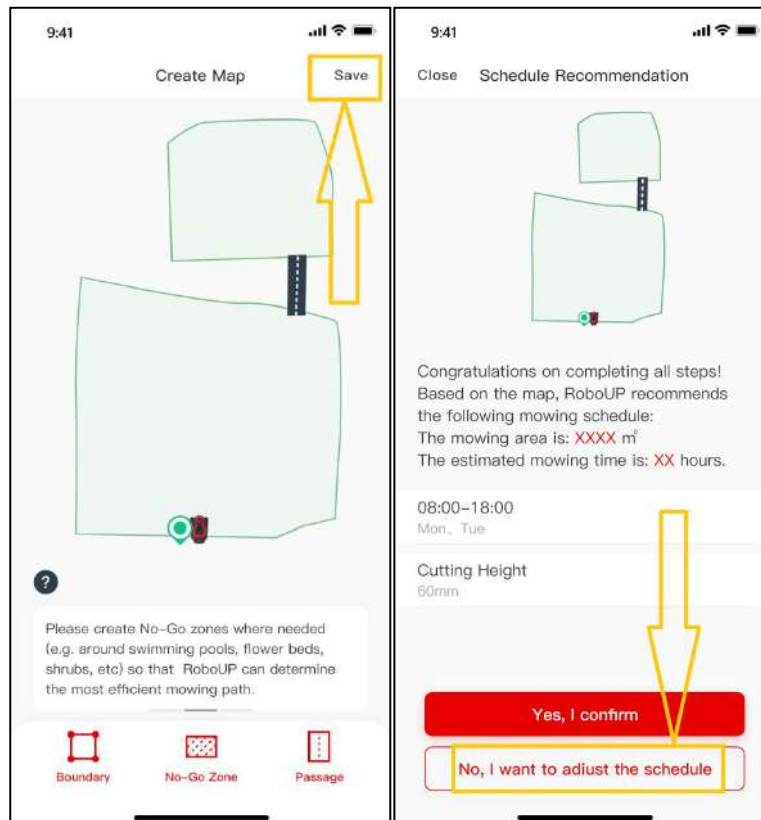


- 2) Click [**Start creating passage**], and slide the controller again to control the mower to cross the physical passage to link the two boundaries on the map. After that, tap [**Complete**] to save the passage.

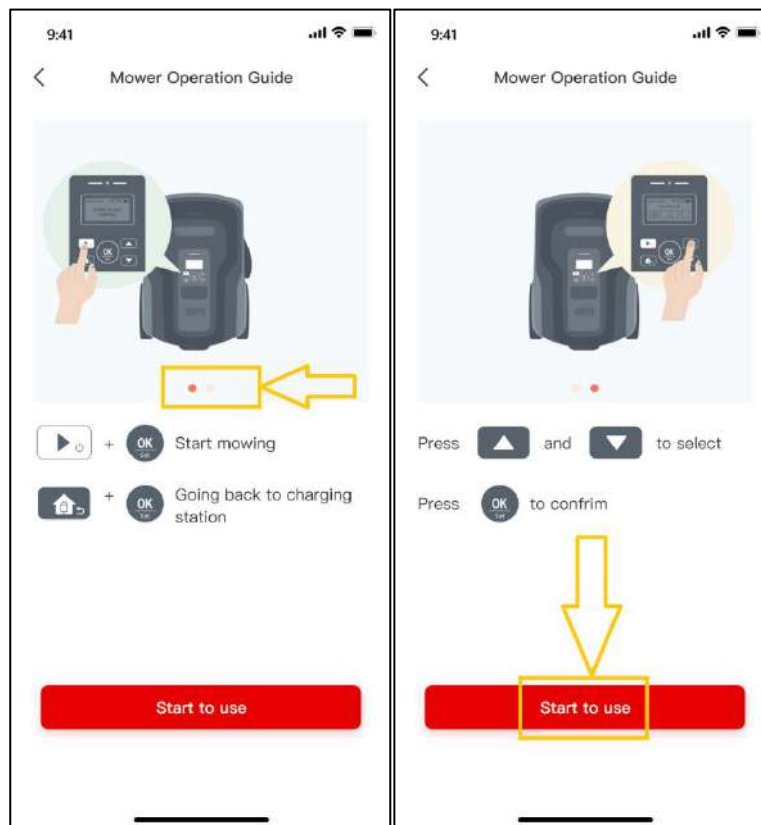


3.4.4 Finish the mapping

If there are any objects that need to be protected from the mower, click **[No-go Zone]** to create no-go zones. After all boundaries, passages, and no-go zones have been created, click **[Save]** to finish the mapping. On the next page, if the recommended mowing schedule and cutting height satisfy the need, click **[Yes, I confirm]** to go next; if not, hit **[No, I want to adjust the schedule]** to modify the settings.



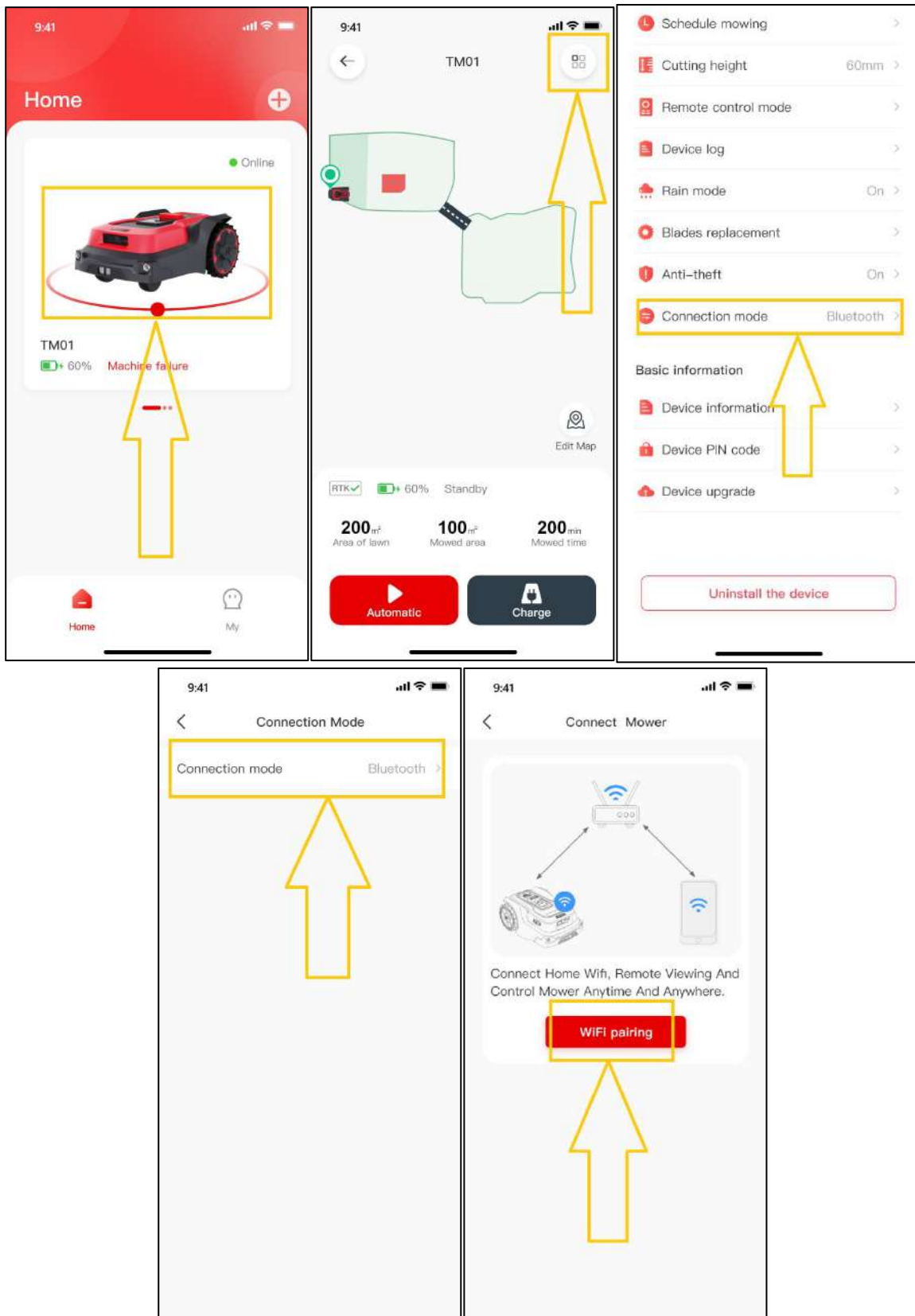
After that, the APP will lead to the last step of introducing how to operate the buttons on the mower, including powering it on, starting mowing, re-charging, and putting PIN code. Make sure you are familiar with the operation, click **[Start to use]**, then you can operate on the APP or on the mower.



4 Wi-Fi Connection

Note: The mower doesn't connect to Wi-Fi if the Bluetooth connection in the basic installation guide is done, so with a Bluetooth connection, the APP cannot restore the mower to factory settings and do OTA upgrades. If you need to restore factory settings or do OTA firmware upgrades, please refer to the following steps to build a Wi-Fi connection.

If you have connected the Bluetooth before, open the RoboUP APP and when the mower is online click the **[More Functions]** icon on the top right corner to enter the next page. Click **[Connection mode]** and **[Bluetooth]**, then tap **[Wi-Fi pairing]**.

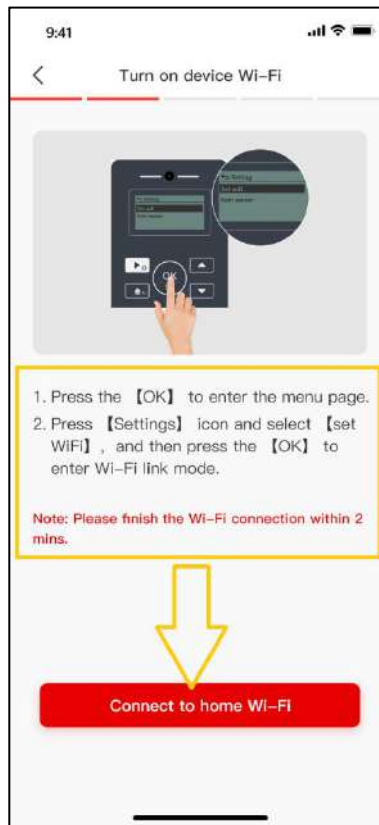


- 1) Enter the **[Power on]** page, refer to the step prompts to long press the power button to turn on the mower, and enter the PIN code to enter the home page of the UI. After that, go back to the

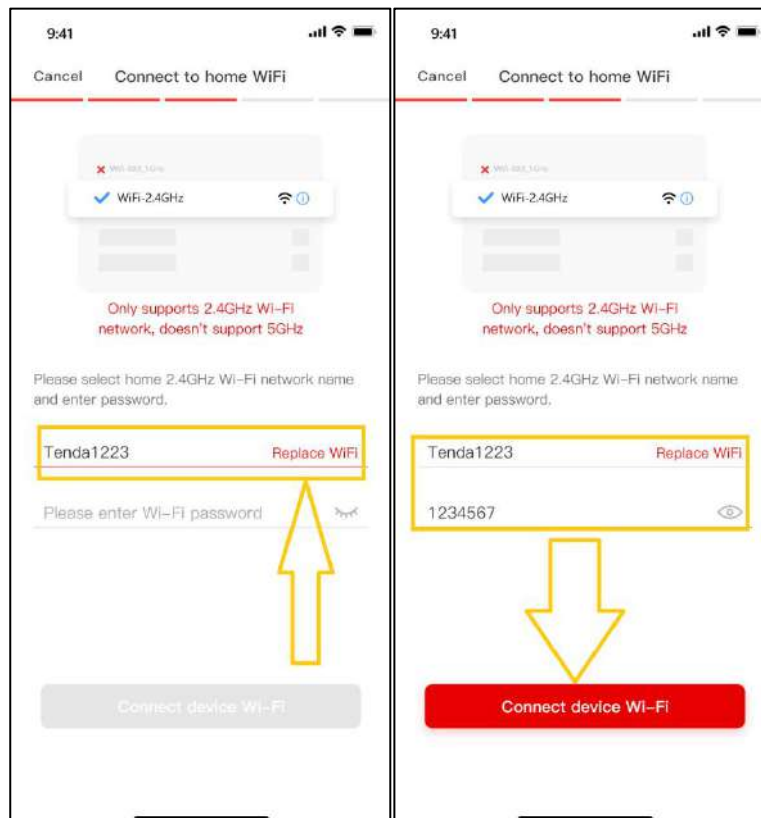
APP and tap **[Turn on device Wi-Fi]** to go next.



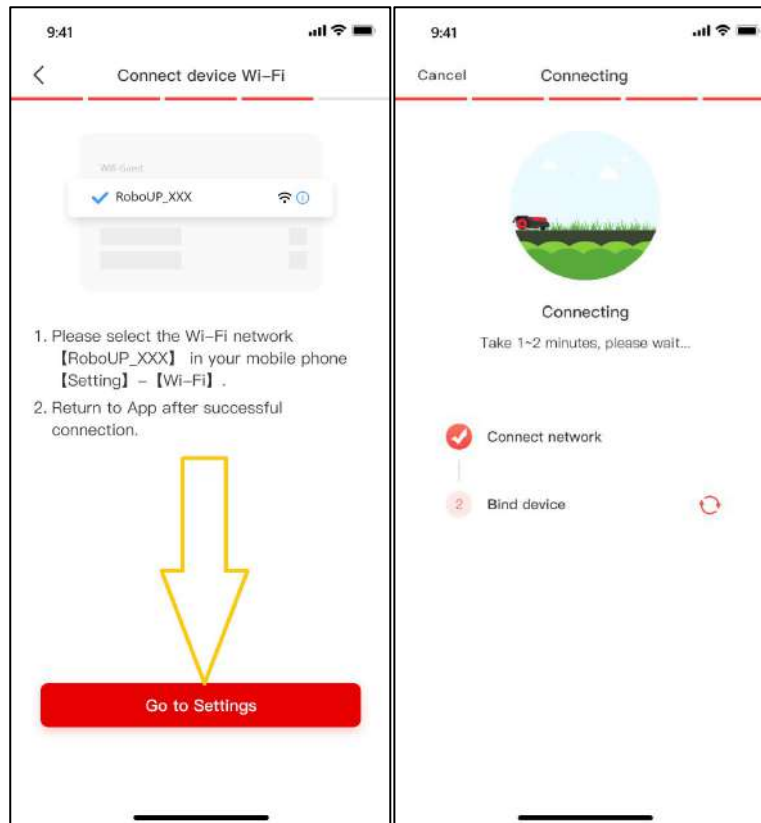
- 2) On the page of **[Turn on device Wi-Fi]**, refer to the step prompts again to press **OK** button on the mower to enter menu on the UI, press the **arrow** button to select **[Settings]** option, tap **OK** button again to enter **Settings** list, and find **[Set Wi-Fi]** by pressing the **arrow** button, continue to press **OK** button twice to enable Wi-Fi signal of the mower, then go back to the APP, and click **[Connect to home Wi-Fi]** to go next.



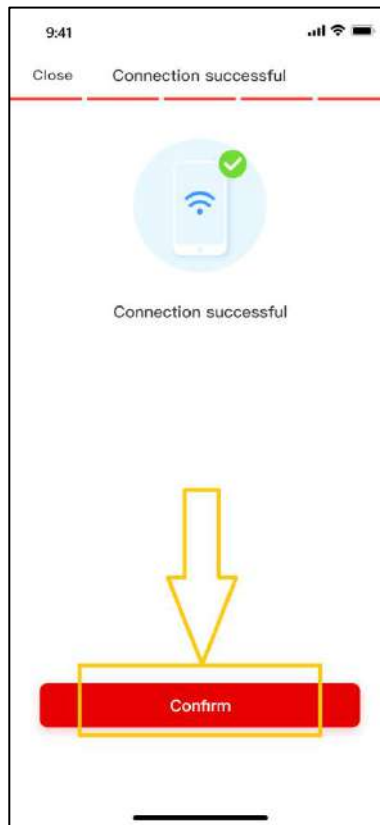
- 3) Enter **[Connect to home Wi-Fi]** page, click **[Connect]** to select a 2.4Ghz home Wi-Fi signal, or **[Replace Wi-Fi]** if the existing one is not 2.4Ghz. After entering the Wi-Fi password, tap **[Connect device Wi-Fi]** to go next.



- 4) On the [**Connect device Wi-Fi**] page, click [**Go to Settings**], and select the hotspot Wi-Fi signal beginning with **RoboUP_XXX**. After it is connected, click the back button in the upper left corner to return to the APP, then it will enter the [**Connecting**] page.



- 5) It takes about 1~2 minutes to connect to Wi-Fi. After it turns to the successful connection page, tap [**Confirm**] to go back to home page. If it fails, please try from the start.



Please note: if you are still on the basic installation page and haven't run the Bluetooth connection, click on **[Wi-Fi]** in the top right corner to enter the Wi-Fi connection process.



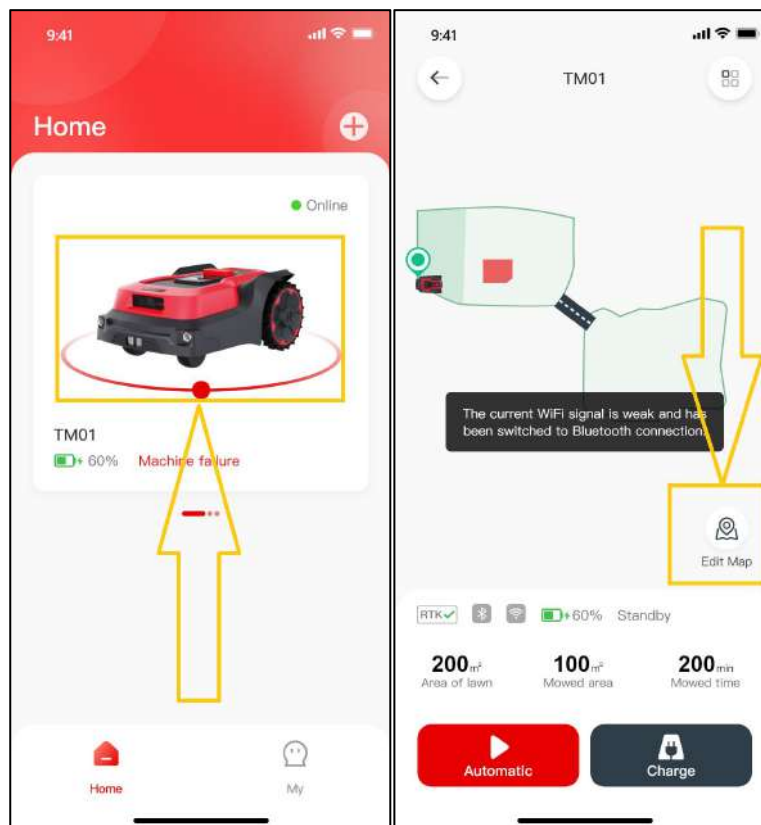
5 Map Editing

After the basic installation, if there is any need to edit the existing map, the tutorials below may be helpful.

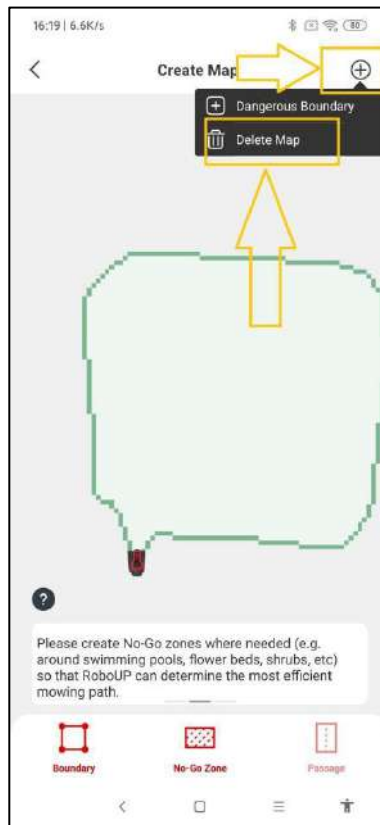
5.1 Delete the existing map

If you need to delete the whole map, or just delete parts of it, like boundary, no-go zone, or passage, please refer to the following steps to do it.

- 1) Open the RoboUP APP and tap the device on the home page, then click **[Edit map]**.

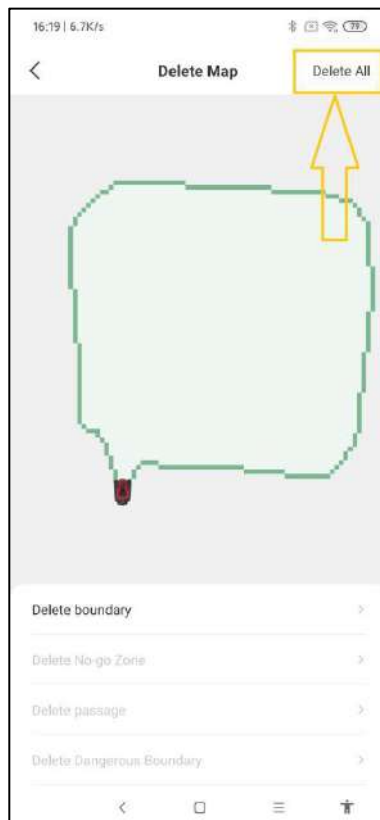


- 2) On the page, tap the **[+]** in the top right corner, then click **[Delete Map]**.



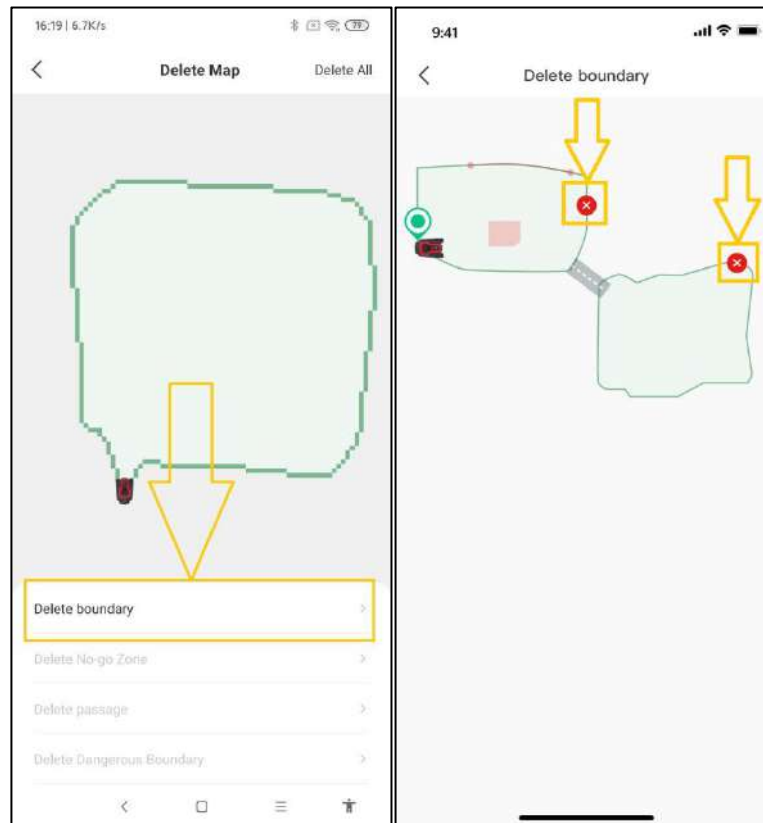
3) On the [**Delete Map**] page, according to the needs choose the proper operation:

- ① **Delete the whole map:** tap the [Delete All] in the top right corner, then the whole map will be deleted, which is suitable for building a new map of a different garden.



- ② **Delete parts of the map:** tap the corresponding option at the bottom, for example, if you need to delete the boundaries, tap **[Delete boundary]**, then on the next page, click the **[X]** icon on the boundary that you need to delete.

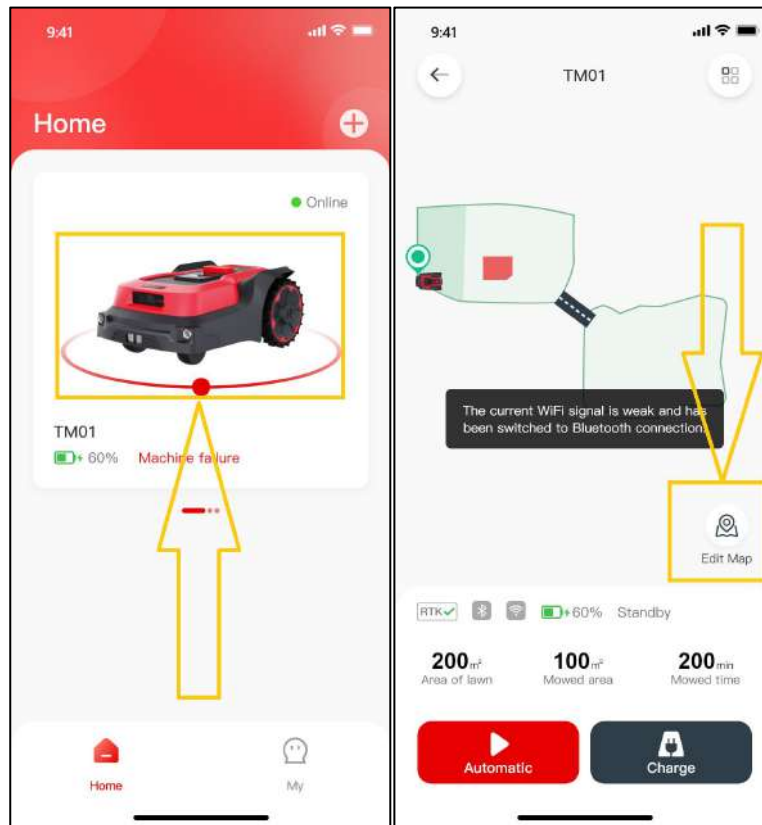
Please note that if the main boundary is deleted, it means the whole map will disappear.



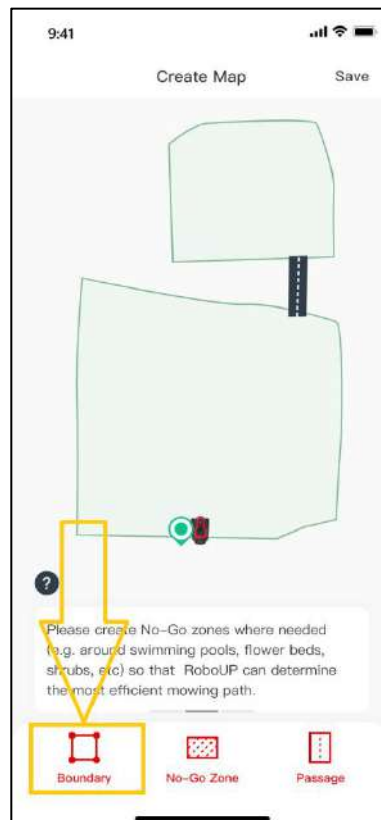
5.2 Add a Boundary

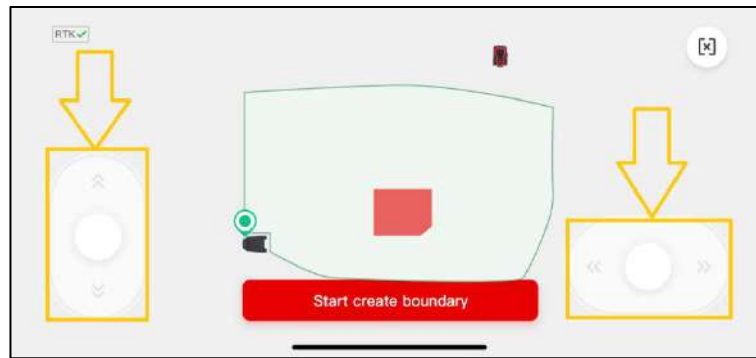
If you need to add a new boundary to the existing map for a new area or need to recreate a new map, refer to the following steps to edit the map.

- 1) Open the RoboUP APP and tap the device on the home page, then click **[Edit map]**.



- 2) On the **[Create map]** page, click **[Boundary]** at the bottom to go to the controller page. If the mower is not at the place where you need to start adding a boundary, slide the controller to control it moving to the start point, then tap **[Start create boundary]** to go next.

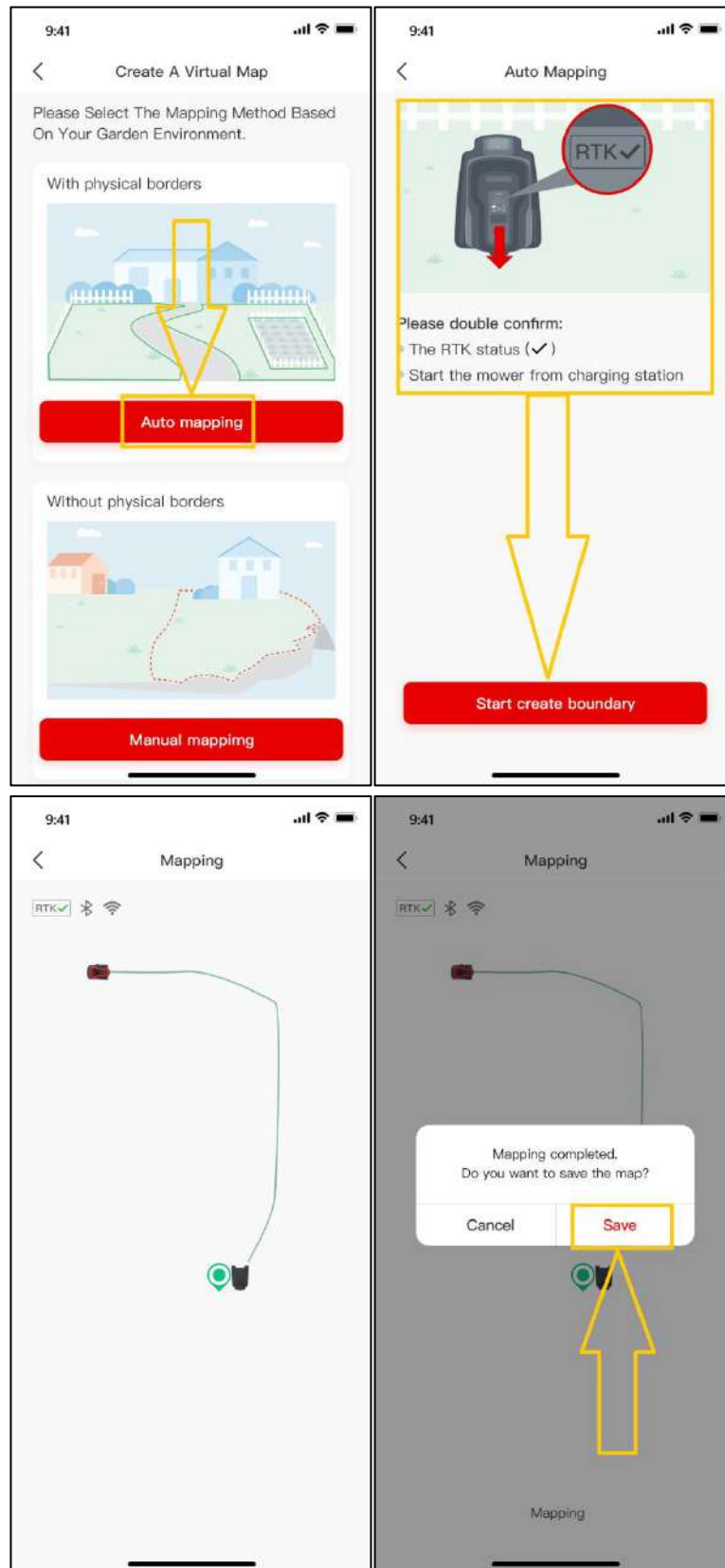




3) Now on the **[Create a Virtual map]** page, choose the proper method of mapping according to the garden environment: Auto mapping or Manual mapping.

Please note: if the new boundary is the main one, which means the charging station is included, the mower will do auto calibration once during the process; if it is not the main boundary, the mower will not do auto calibration.

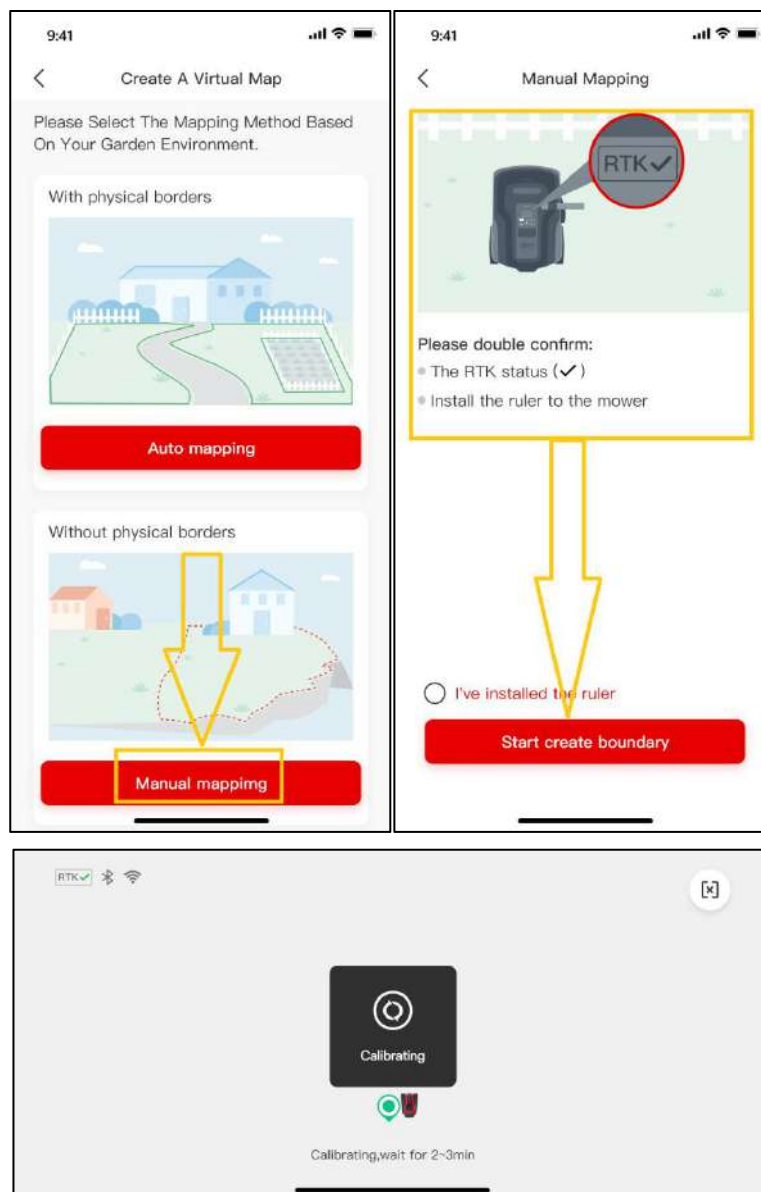
① **Auto mapping:** If the garden is with physical borders, like fences, click **[Auto mapping]** to enter the next page to make sure **the RTK icon on the mower' s LCD display is ✓**, then click **[Start create boundary]**, and if it is trying to create a new main boundary the mower will do calibration automatically. After the calibrating is finished, it will drive out of the charging station and automatically build a boundary along the edge. After the mower is nearby the charging station, click **[Save]** on the pop-up window prompts to save the boundary.

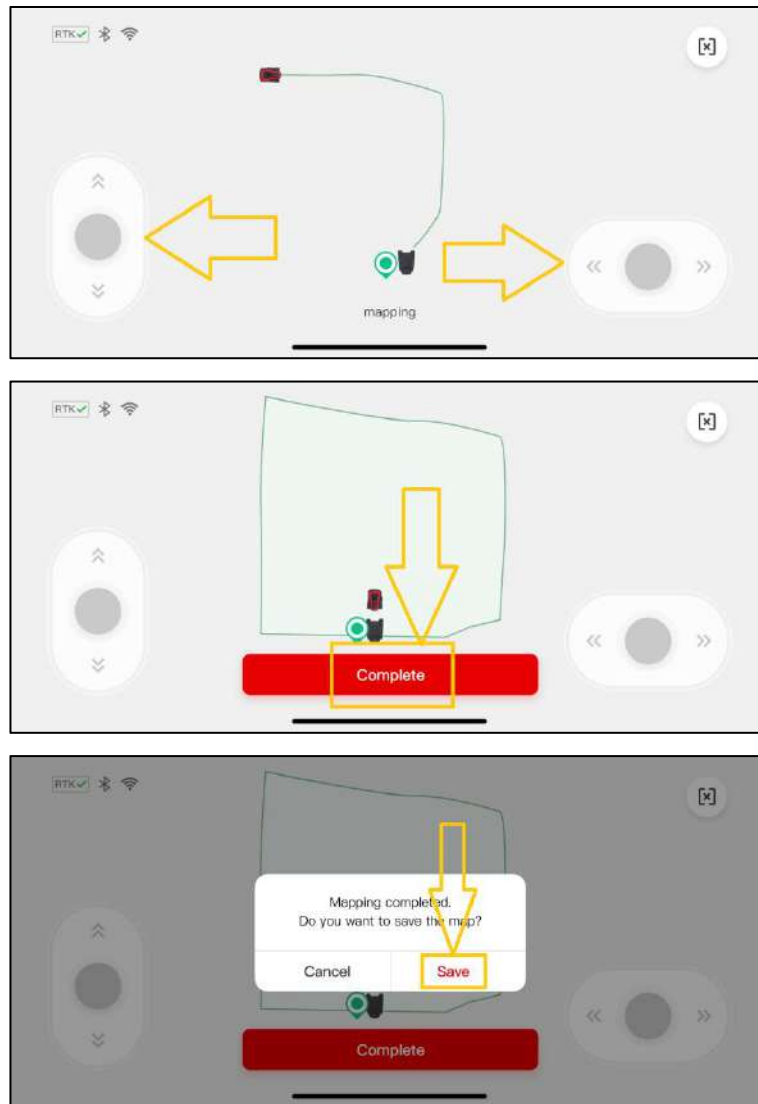


- ① **Manual mapping:** If the garden is without physical borders, like fences, choose [**Manual mapping**] to enter the next page, make sure **the RTK icon on the mower' s LCD display is ✓** and install the

ruler if needed, and check at the bottom, then click **[Start create boundary]** to enter the manual mapping page. After the mower finishes the calibration, slide the controller on the two sides to manually build a boundary along the edge. After the mower is nearby the charging station, click **[Complete]** and **[Save]** on the pop-up window prompts to save the boundary.

Note: Please follow the mower within 3 meters during the process for a stable connection and smooth mapping.

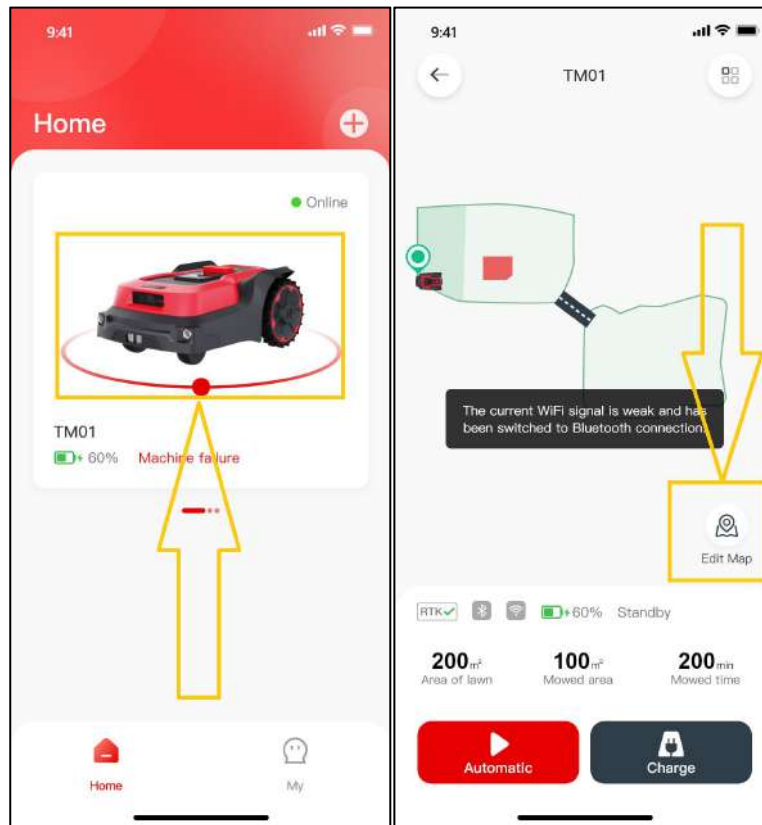




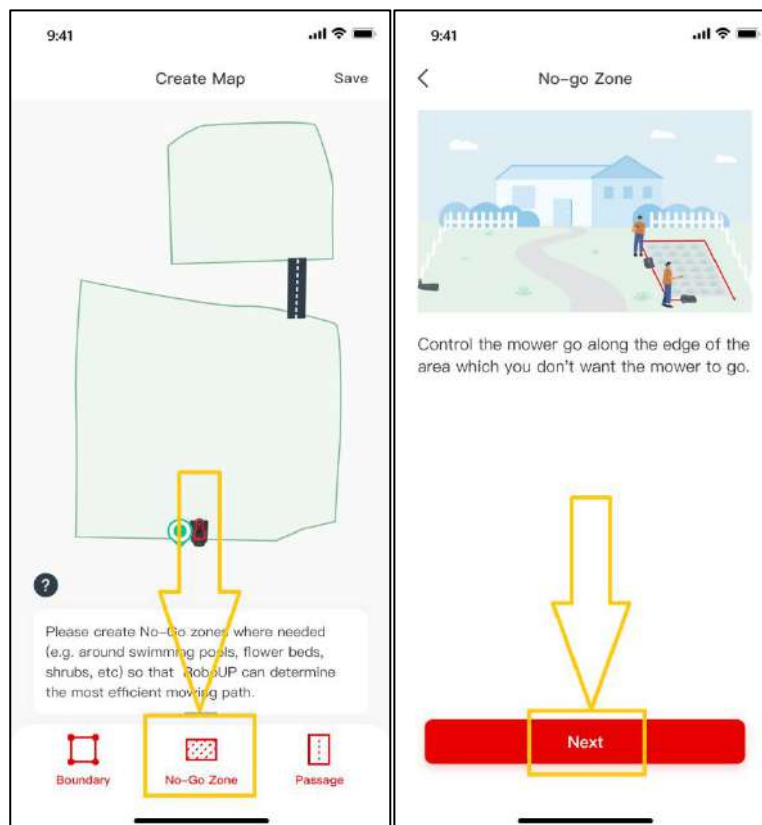
5.3 Create a No-go Zone

If there are trees, swimming pools, trampolines, etc. in the middle of the garden, it is recommended to create no-go zones for them to set the preset for the mower to avoid them.

- 1) Open the RoboUP APP and tap the device on the home page, then click **[Edit map]**.



2) On the **[Create map]** page, click **[No-Go Zone]** at the bottom and tap **[Next]** after reading the tip to go to the controller page.



3) If the mower is not at the place where you need to create a no-go zone, slide the controller to

control it moving to the start point, then tap **[Start create No-go zone]** and **[Confirm]** to go next.



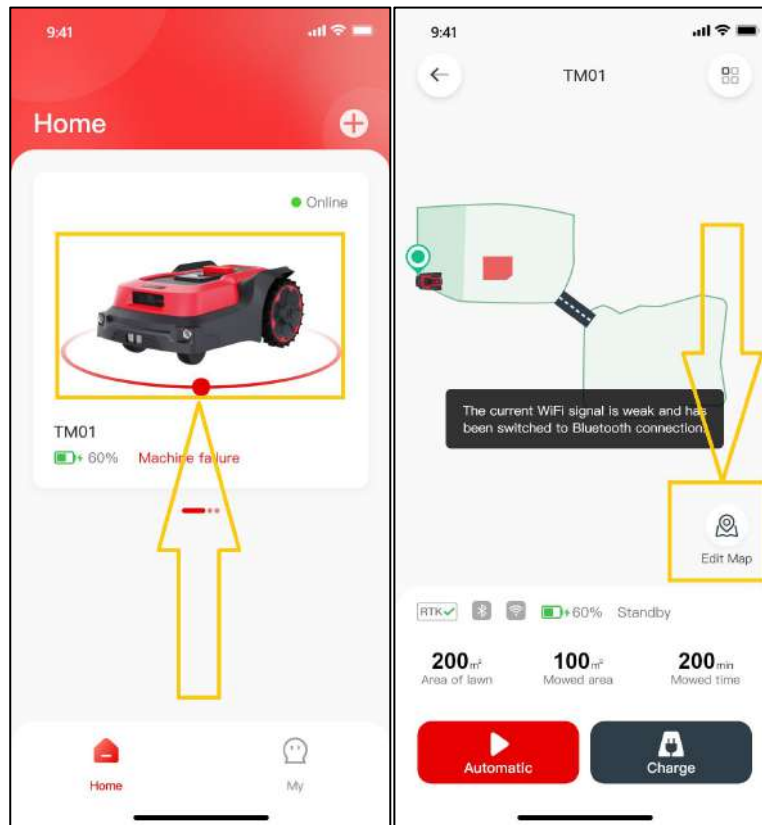
- 4) Slide the controller again to move the mower to run a circle of the object that you want to create a no-go zone, then tap **[Complete]** to finish the process.



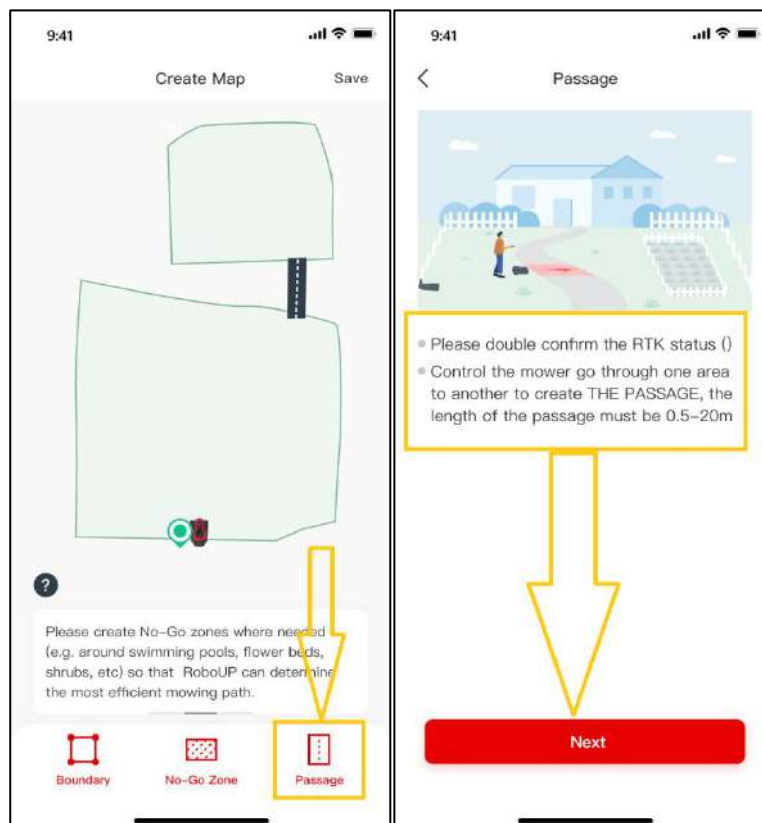
5.4 Create a passage

If there is more than one boundary that has been created, and there is any proper physical passage for the mower to pass by, the **[Passage]** is required to link the two boundaries.

- 1) Open the RoboUP APP and tap the device on the home page, then click **[Edit map]**.

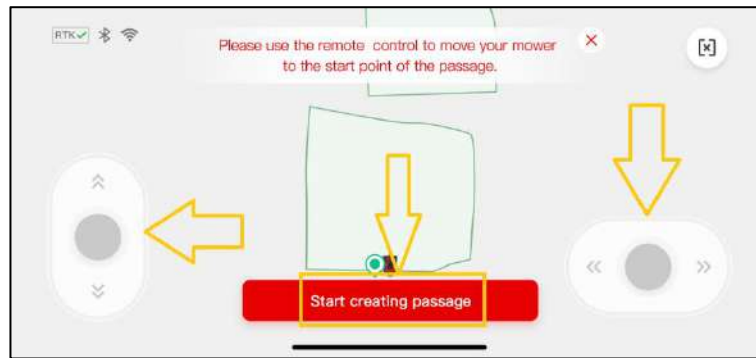


2) On the [Create map] page, click [Passage] at the bottom and tap [Next] after reading the tip to go to the controller page.

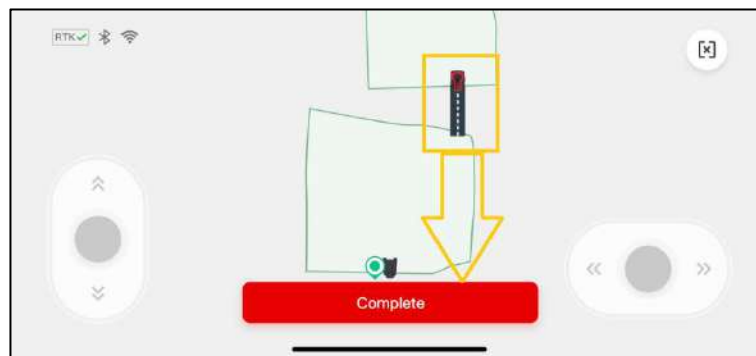


3) If the mower is not at the place where you need to create a passage, slide the controller to control

it moving to the start point, then tap **[Start creating passage]** to go next.



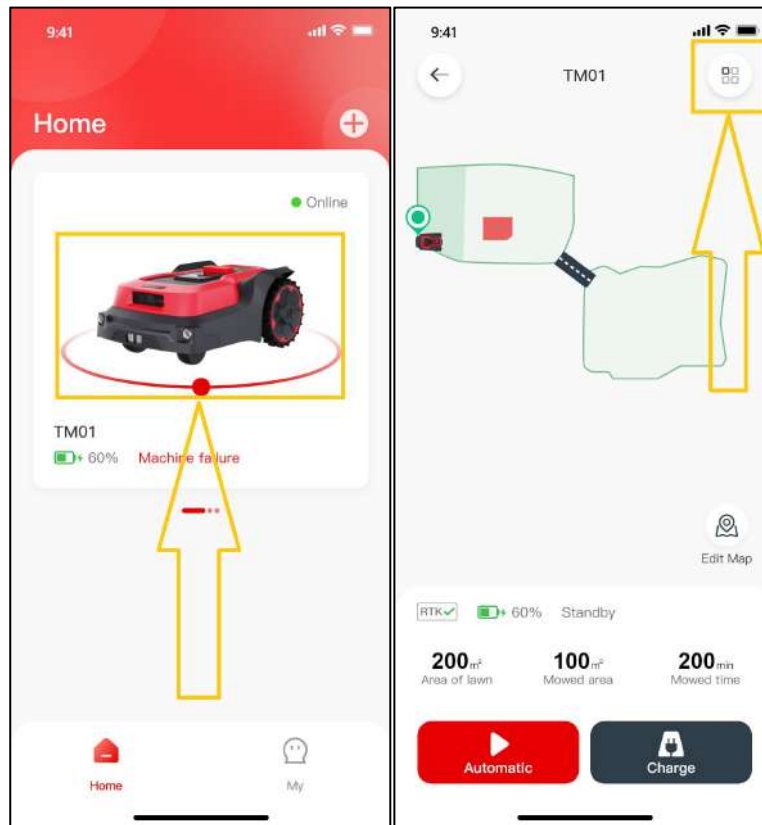
- 4) Slide the controller again to control the mower to cross the physical passage to link the two boundaries on the map. After that, tap **[Complete]** to save the passage.



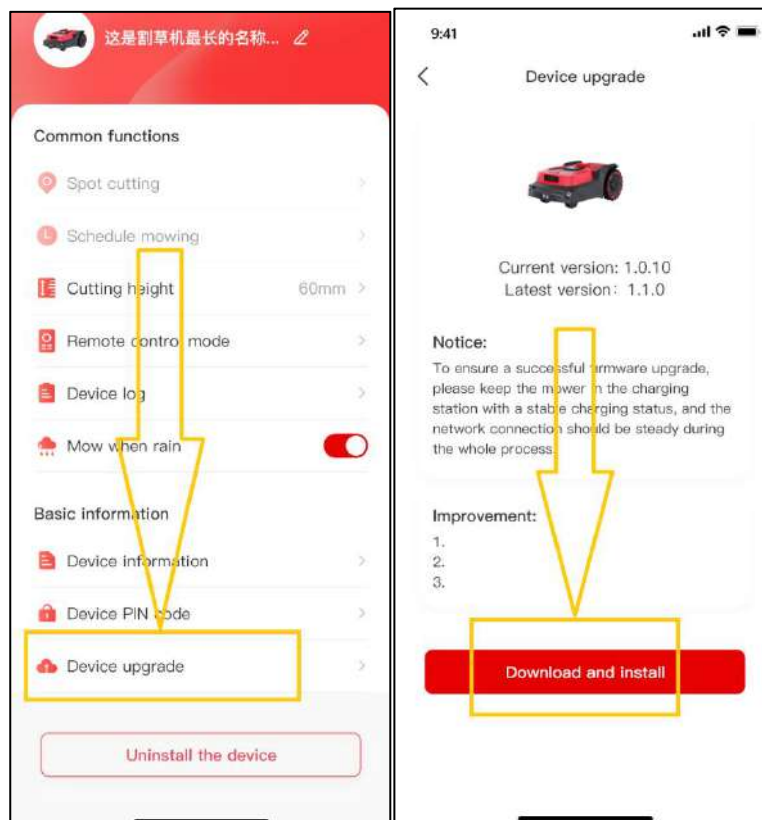
6 Firmware Upgrade

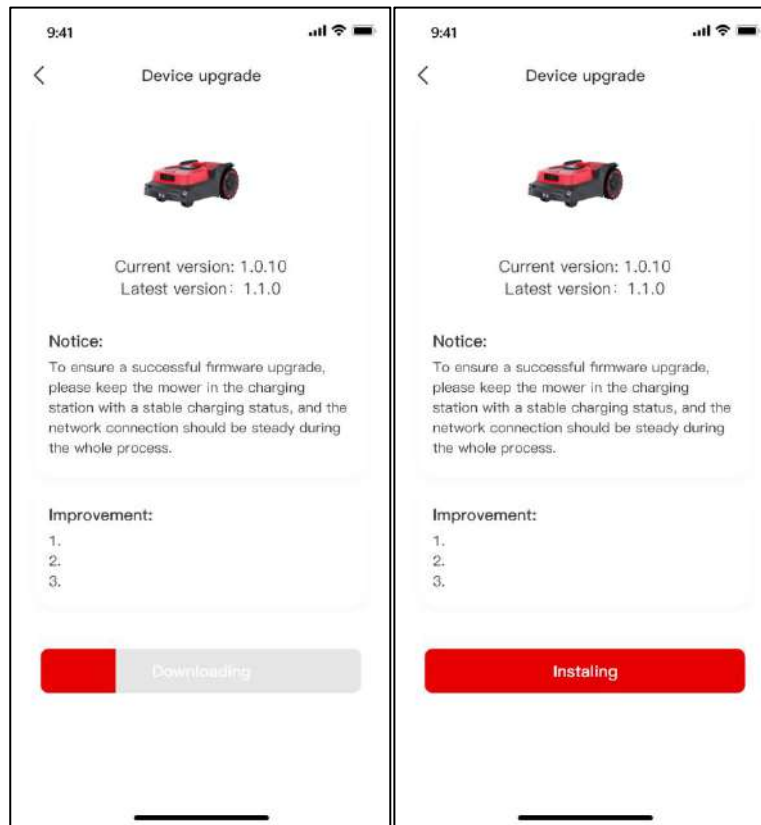
Note: Before doing a firmware upgrade, please refer to the tutorial on Wi-Fi connection to connect the mower to Wi-Fi that can access the Internet, which can be verified if there is a Wi-Fi icon on the UI. Furthermore, a place with a full-bars Wi-Fi signal where the mower is located is required for a smooth firmware upgrade.

- 1) Open the RoboUP APP and when the mower is online click the **[More Functions]** icon on the top right corner to enter the next page.



2) Tap the **[Device upgrade]** option, hit the **[Download and install]** button at the bottom, and confirm to enter the automatic firmware upgrade process. The upgrade process will be finished within 15 minutes which differs because of the firmware versions and the network speed.



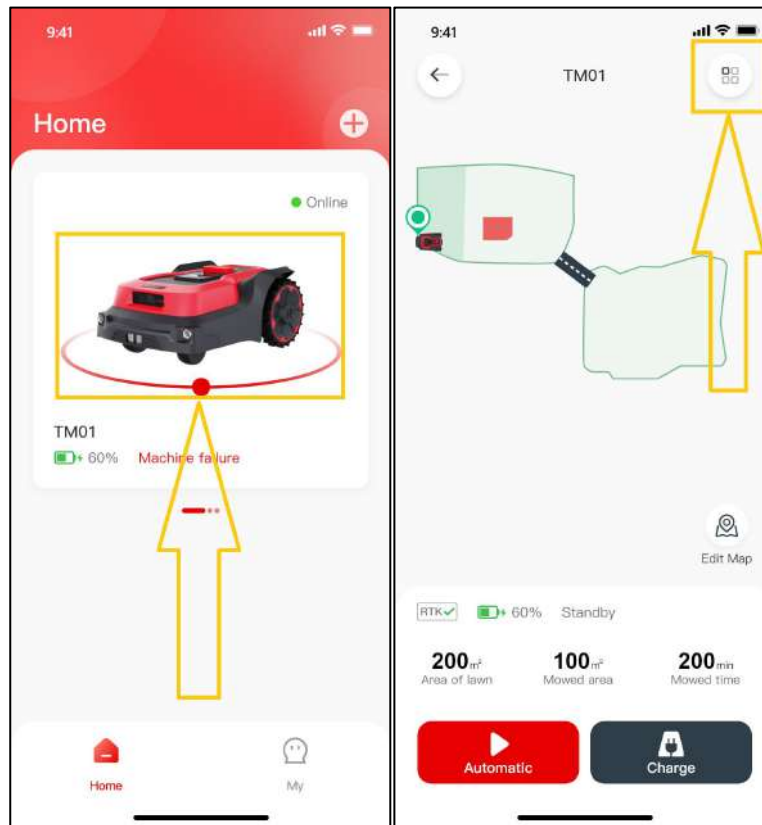


- 3) After the firmware upgrade is finished, please check if the current version is the latest on the [Device upgrade] page.

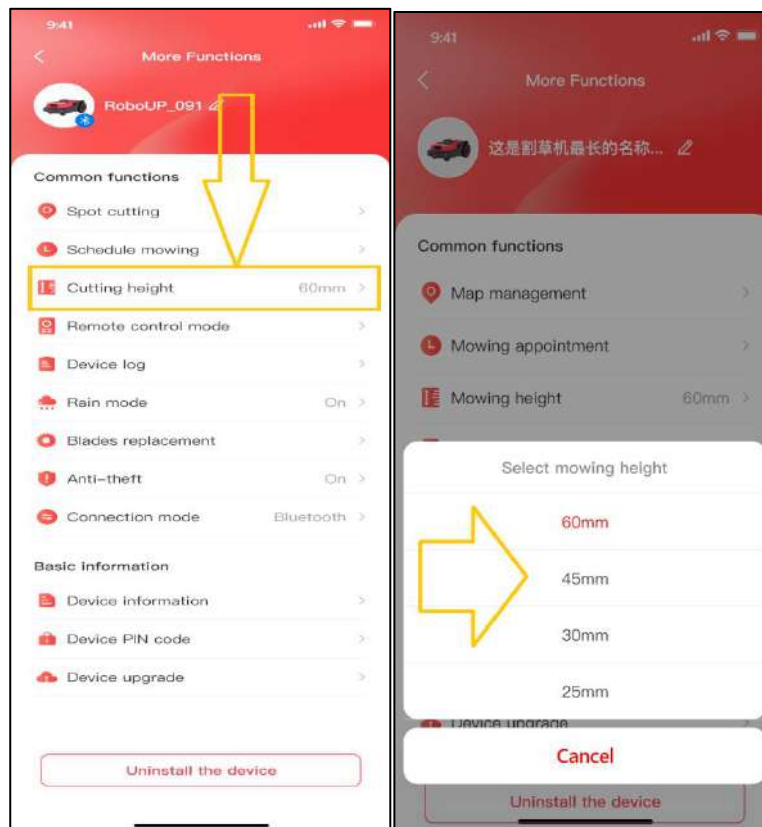
7 Cutting height adjusting

Note: Adjusting cutting height can be operated on the APP via Bluetooth connection or Wi-Fi connection.

- 1) Open the RoboUP APP and when the mower is online click the [More Functions] icon on the top right corner to enter the next page.



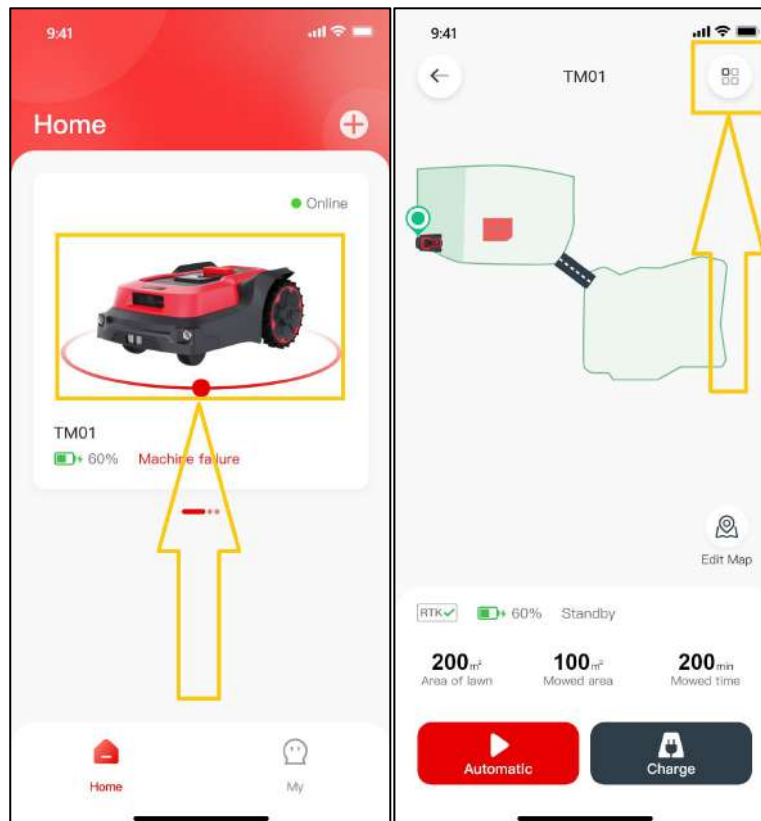
2) Slide down to have **[Cutting height]** option, and click it, then select the cutting height for your need.



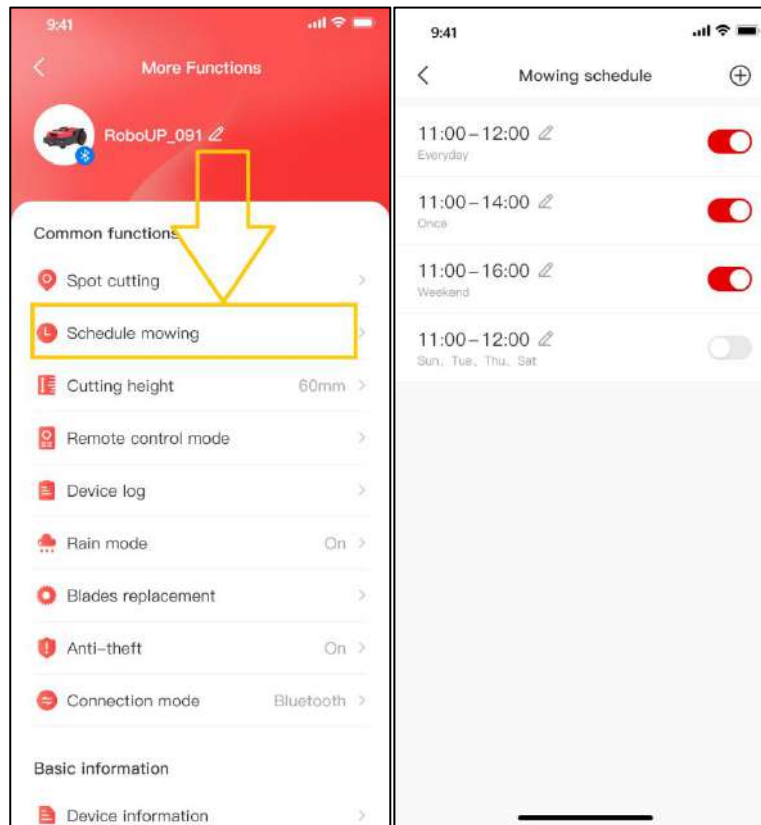
8 Schedule Mowing

Note: Schedule Mowing can be set up on the APP via Bluetooth connection or Wi-Fi connection.

- 1) Open the RoboUP APP and when the mower is online click the **[More Functions]** icon on the top right corner to enter the next page.

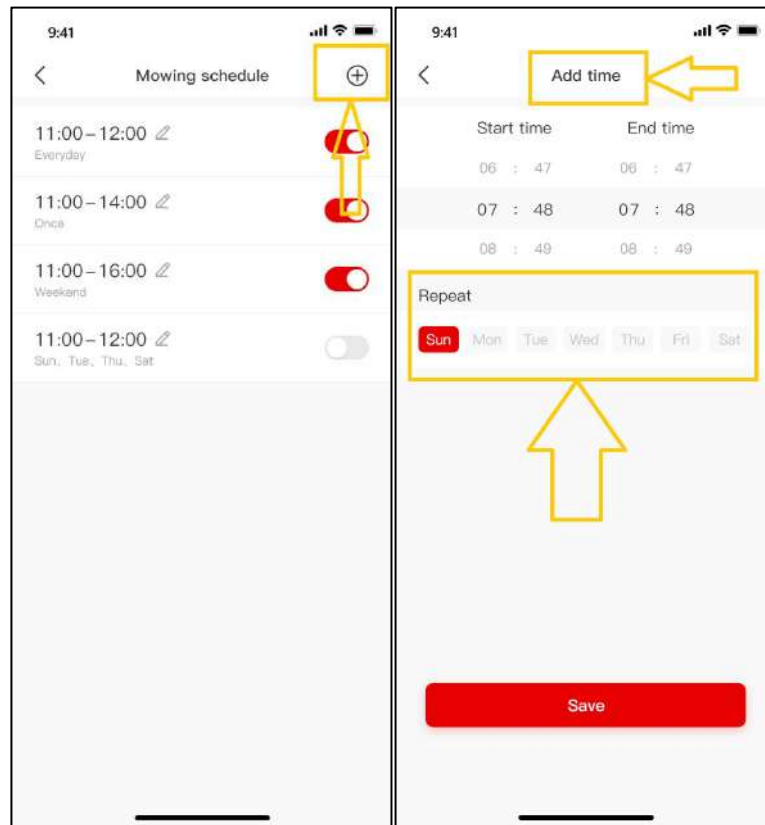


- 2) Slide down to have **[Schedule mowing]** option, and click it, then refer to the following steps to edit the scheduled mowing for different conditions.




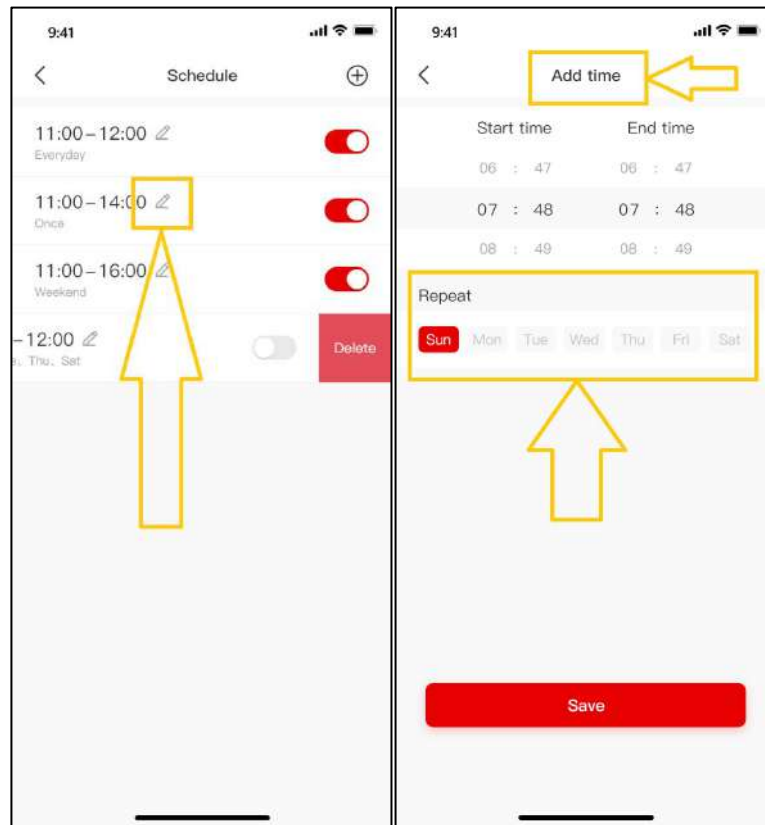
① **Add a new mowing schedule**

Tap **[+]** in the top right corner, set the start time and end time for the mowers to mow the garden under **[Add time]**, then select the working day under **[Repeat]**. After that, tap **[Save]** to save the setting.



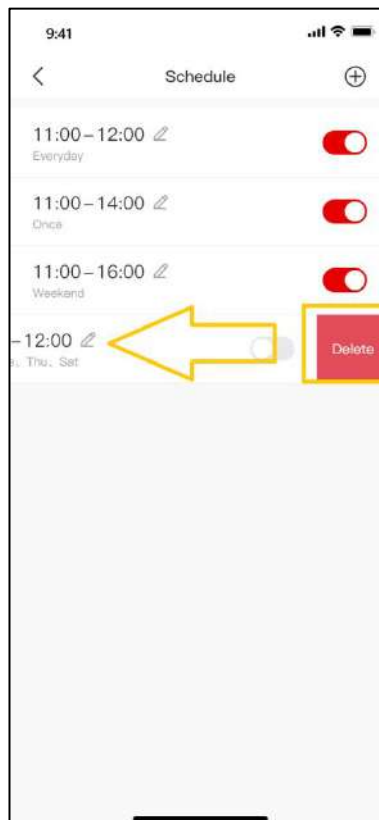
② Edit the existing mowing schedule

Click the  icon after the schedule that you need to modify, then edit the start time and end time for the mowers to mow the garden under **[Add time]**, and also the working day under **[Repeat]**. After that, tap **[Save]** to save the setting.



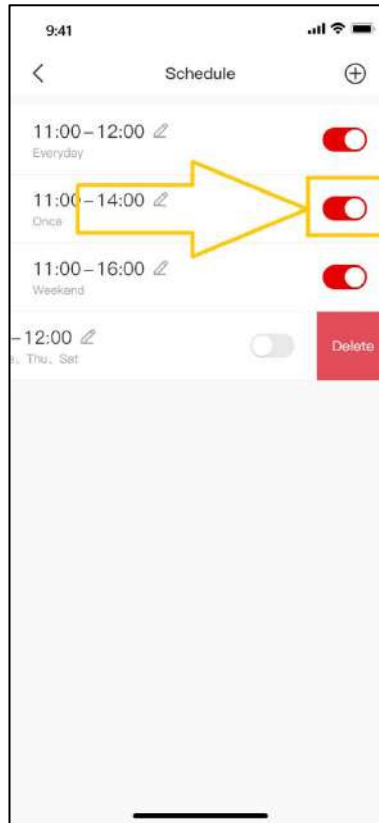
③ **Delete the existing mowing schedule**

Slide the schedule from the right to the left that you need to delete, then tap **[Delete]** to delete the item.



④ Disable or enable the existing mowing schedule

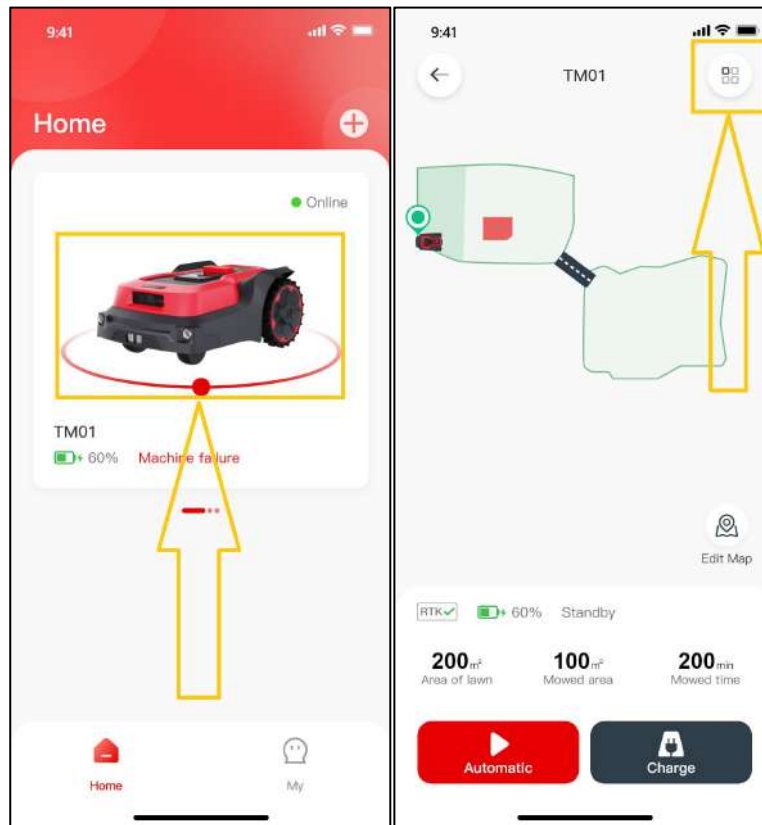
If you need to keep the mowing schedule but don't want it to make effective right now, just click the icon below to disable it, and tap it again to enable it next time.



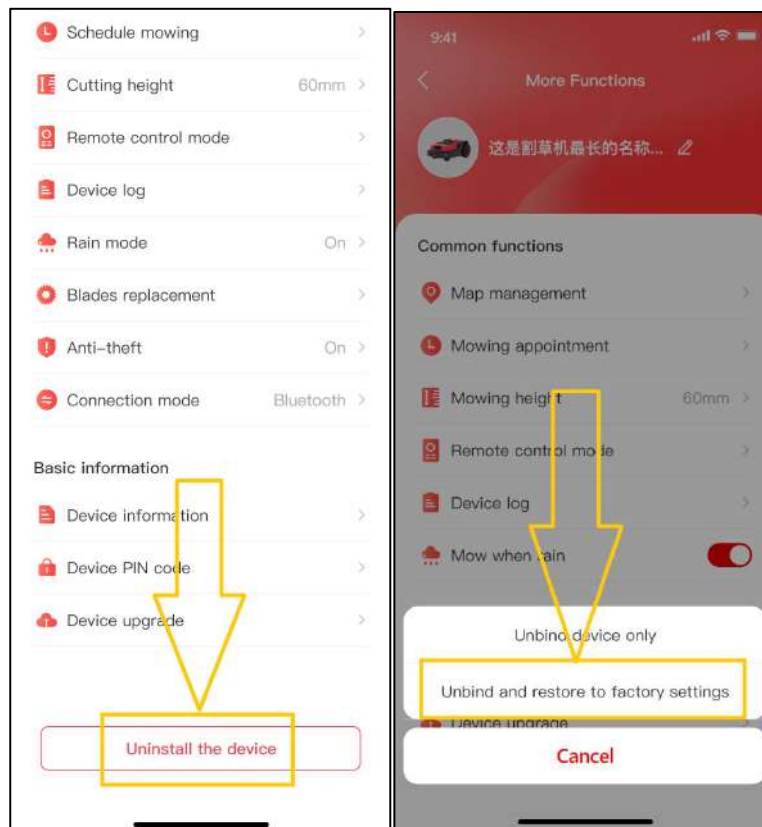
9 Factory Default

Note: Before doing a factory default, if the APP on your phone is connected to the mower via Bluetooth, please refer to the tutorial on Wi-Fi connection to connect the mower to Wi-Fi that can access the Internet, which can be verified if there is a Wi-Fi icon on the mower's LCD display. Furthermore, a place with a full-bars Wi-Fi signal where the mower is located is required for a smooth factory default operation.

1) Open the RoboUP APP and when the mower is online click the **[More Functions]** icon on the top right corner to enter the next page.

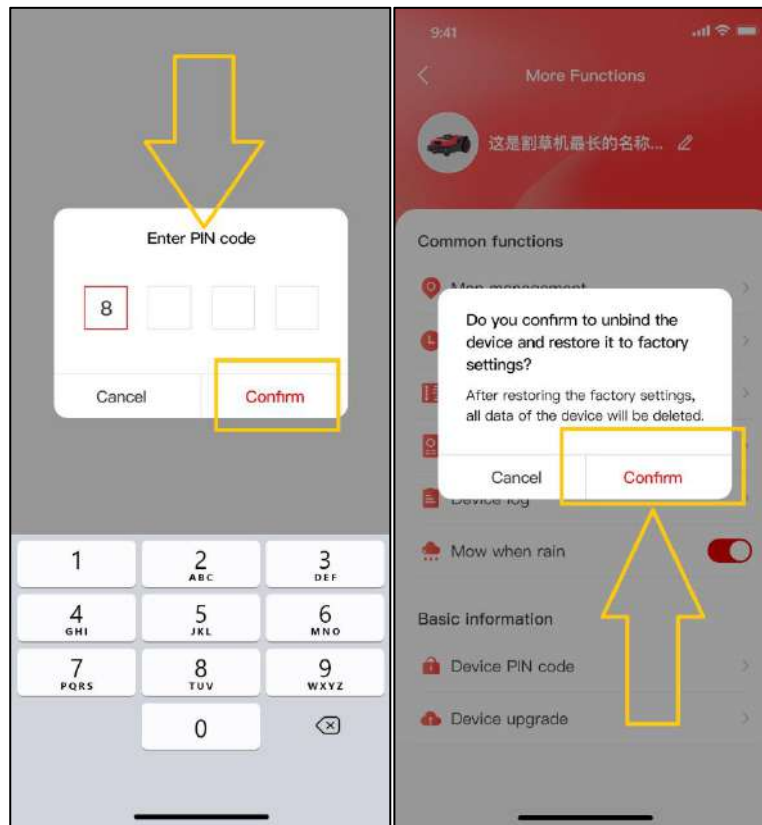


2) Slide down to the bottom and click **[Uninstall the device]**, and on the pop-up options select **[Unbind and restore to factory default]**.



3) On the pop-up prompt, **type in the PIN code**, and tap **[Confirm]** to go next. On the final page,

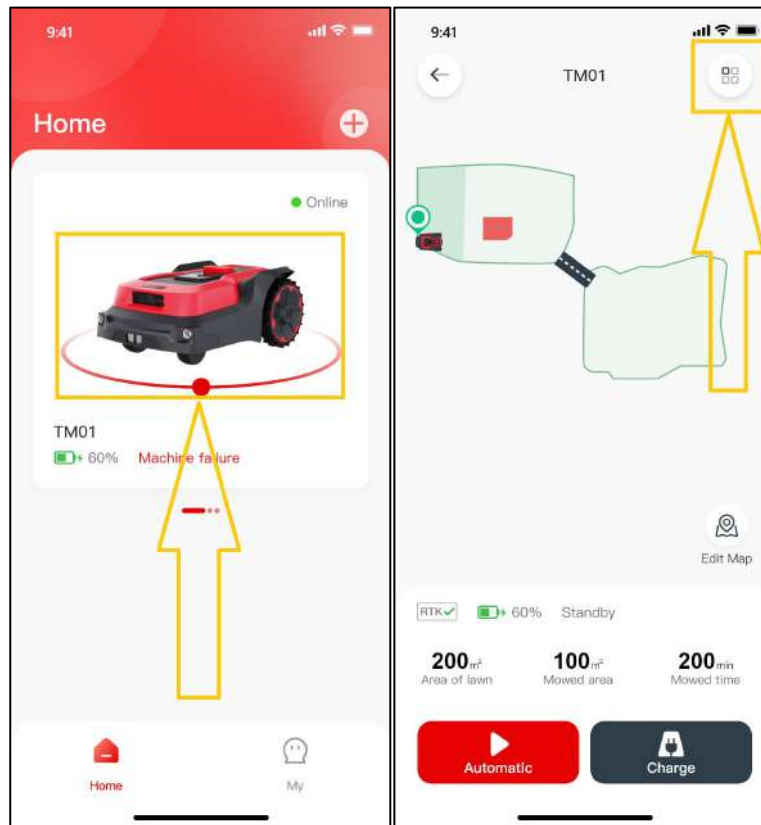
please read the notes carefully and click [**Confirm**] to do factory default.



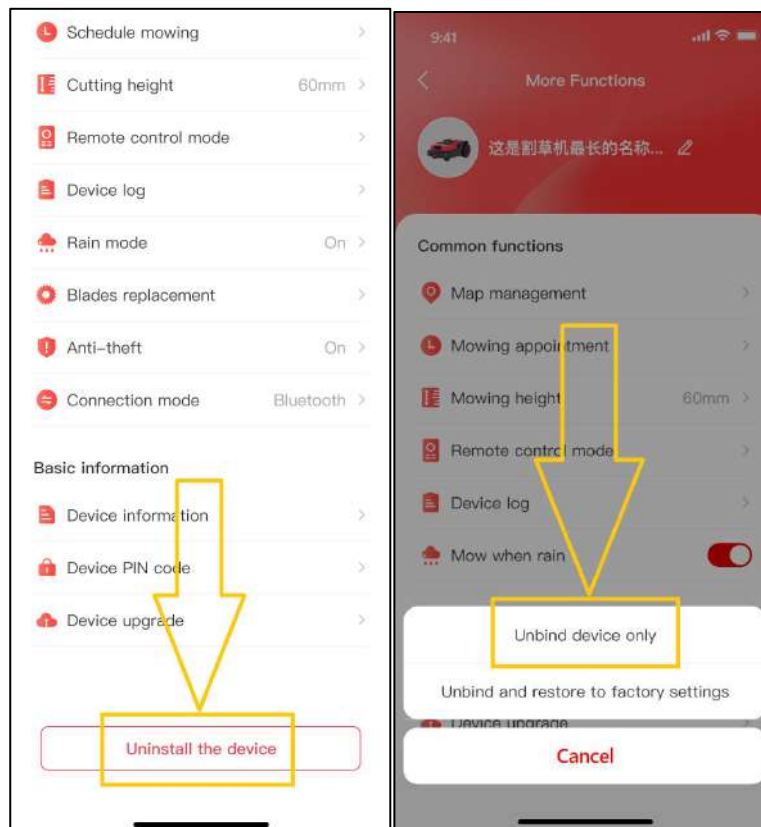
10 Account Unbind

Note: unbinding your account can be only operated on the APP via a Wi-Fi connection. So if the APP on your phone is connected to the mower via Bluetooth, please refer to the tutorial on Wi-Fi connection to connect the mower to Wi-Fi that can access the Internet, which can be verified if there is a Wi-Fi icon on the mower' s LCD display. Furthermore, a place with a full-bars Wi-Fi signal where the mower is located is required for a smooth operation.

- 1) Open the RoboUP APP and when the mower is online click the [**More Functions**] icon on the top right corner to enter the next page.



2) Slide down to the bottom and click **[Uninstall the device]**, and on the pop-up options select **[Unbind device only]**.



3) On the pop-up prompt, read the notes carefully and click **[Confirm]** to unbind the account.

