Programming and troubleshooting guide

Control Panel and menu

HOME
Sends the Landroid®M to its charging base during operation and activates charging

START
Shortcut key to start mowing.

NUMBER PAD
Input numbers to set time, date

STOP
To stop the Landroid®M during normal operation and charging.

HOMEPAGE
Displays the state of your setting

POWER ON/OFF
Turns the Landroid®M on and off

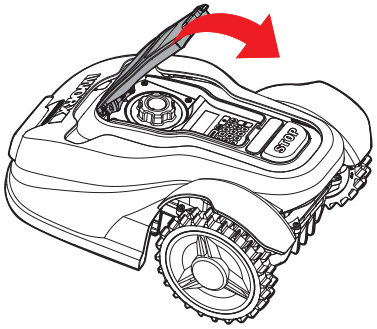
RETURN
Back to proceeding menu

Select up

Select down

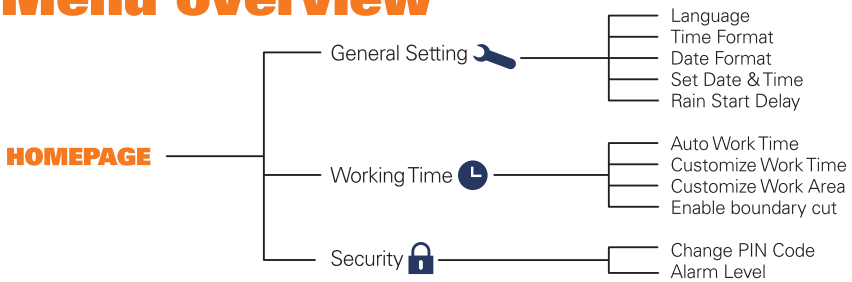
OK
Confirms any setting/ Enter the menu
Note: Make sure you confirm your selection within 30 secs or the display will return to previous menu.

LANDROID® M
UNMANNED MOWING VEHICLE



Always close the panel cover after programming, your Landroid®M will not move with the cover open.

Menu overview



Quick Start

Press ⏻ until Landroid®M turns on and input the default PIN 0000.
Press START and close the cover to start mowing.
Press ⌂ and close the cover to make Landroid®M go to the charging base, at the same time it will mow the grass near the boundary wire. Landroid®M will work continuously until battery is low and then it will return to the charging base. Once charging is complete, Landroid®M will automatically resume mowing or it will stay in the charging base if it has finished mowing as scheduled.

Programming

To Program your Landroid®M, simply follow the step by step guide below.

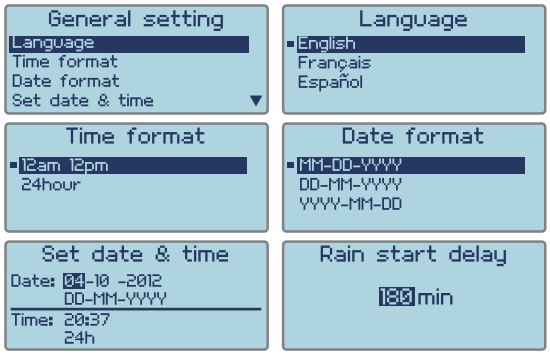
Setting

If you want to change the working time and other settings, please follow the steps below.

Buttons	↑ ↓	OK	↩
Function	Selection Up/Down	Enter the menu/Confirm the setting	Go back to the previous menu

Press **OK** on HOMEPAGE to enter the submenu.
Note: When your Landroid®M is charging. please press STOP first, then press **OK** to enter the submenu.

1. General setting ( )



Note: Set date and Set time are two compulsory setting items. If you don't set these two items, it will influence the Schedule time in the following setting.

1.1 Language
Select the appropriate language by using the ↑ ↓ keys, then press **OK**.

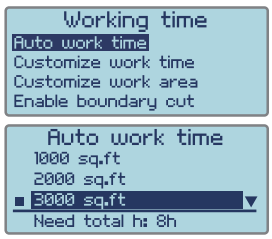
1.2 Time format
Select 12 am 12 pm or 24 hour by using the ↑ ↓ keys, then press **OK**.

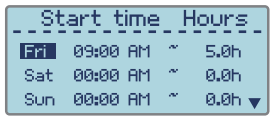
1.3 Date format
Select MM-DD-YYYY, DD-MM-YYYY or YYYY-MM-DD by using ↑ ↓ keys, then press **OK**.

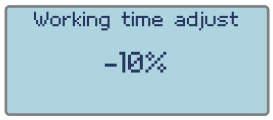
1.4 Set date & time
Press **OK** first, when the number is blinking, press the number directly or use the ↑ ↓ keys to input the actual date or time, then press **OK** to confirm and the number will stop blinking.

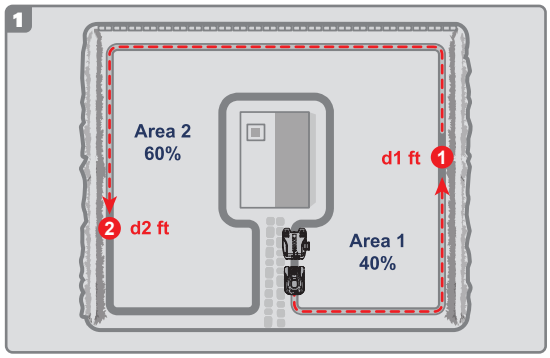
1.5 Rain Start Delay
When it rains, Landroid®M will return to the charging base to wait till the rain stops and the rain sensors are dry. When dry, Landroid®M will automatically begin the delay start countdown and then return to mow.
Press **OK** first, when the number is blinking, input the number of minutes from 0-180min.
Note: If the "min" is set to 0, Landroid®M will continue mowing.

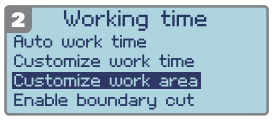
2. Working time ( )

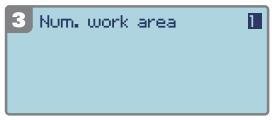


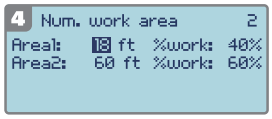


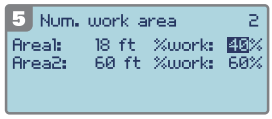


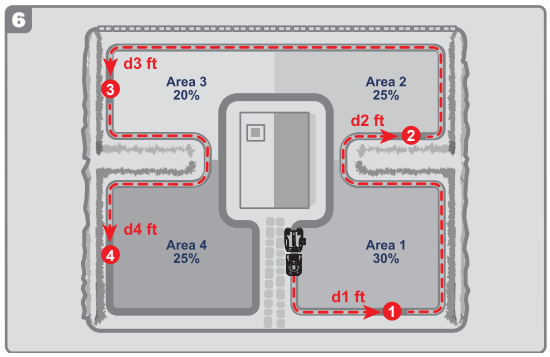


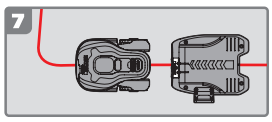


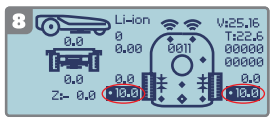


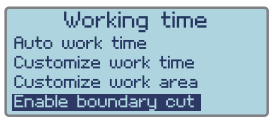


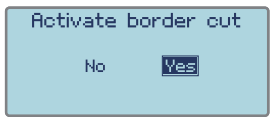












2.1 Auto work time

Use the keys to select the lawn area. The working time will be automatically set according to the size of your garden. Then press **OK**. A " " will appear in front of the option you selected. Auto work time per week will be displayed on the bottom as "Need total h:".
You can find more details about default work time of Landroid®M in following table:

Landroid®M - Auto mowing time schedule.

Area sq.ft	Auto mowing runtime - hours	Monday mowing hours	Tuesday mowing hours	Wednesday mowing hours	Thursday mowing hours	Friday mowing hours	Saturday mowing hours	Sunday mowing hours
1000	3	9:00-10:30	/	/	9:00-10:30	/	/	/
2000	7	9:00-10:24	9:00-10:24	9:00-10:24	9:00-10:24	9:00-10:24	/	/
3000	8	9:00-10:36	9:00-10:36	9:00-10:36	9:00-10:36	9:00-10:36	/	/
4000	11	9:00-11:12	9:00-11:12	9:00-11:12	9:00-11:12	9:00-11:12	/	/
5000	13.5	9:00-11:42	9:00-11:42	9:00-11:42	9:00-11:42	9:00-11:42	/	/
6000	16.5	9:00-12:18	9:00-12:18	9:00-12:18	9:00-12:18	9:00-12:18	/	/
7000	19	9:00-12:48	9:00-12:48	9:00-12:48	9:00-12:48	9:00-12:48	/	/
8000	21.6	9:00-13:18	9:00-13:18	9:00-13:18	9:00-13:18	9:00-13:18	/	/
9000	24.3	9:00-13:54	9:00-13:54	9:00-13:54	9:00-13:54	9:00-13:54	/	/
10000	27	9:00-14:24	9:00-14:24	9:00-14:24	9:00-14:24	9:00-14:24	/	/

NOTE: The maximum mowing area depends on specific model.

2.2 Customize work time

You can customize the work time with this setting.
Use the keys to select the day of week, then press **OK**. When the number is blinking, input the start time and working hours you want your Landroid®M to mow on a particular day.
Press **OK** again to confirm your setting and the number will stop blinking.
Press and use the keys to set other weekdays work time.
If you do not want Landroid®M to mow on a particular day, simply set the hours 0.0 h.

TIPS: Working time adjustment
If you are still not satisfied with the time you set, there's a shortcut to adjust the working time. Return to HOMEPAGE and use the keys to adjust the working time. The overall working time will be adjusted in increments of 10% of the overall working time.

2.3 Customize work area

For a garden divided into several areas which are connected by narrow paths (at least 3 ft (1 meter) wide), it is recommended to use "Customize work area" setting. This will make sure these separated areas be equally mowed. You can have a maximum of 4 areas.
Without this setting, the area far from the charging base may be mowed less frequently than the one near the charging base.
In this setting, you can program Landroid®M to have a start point in each separated area. Landroid®M will go along the boundary wire until it reaches the start point, then it will start to mow, as shown in Fig. 1.
The amount of time Landroid®M will spend in each area can be influenced by the "%work" setting.
Taking 2 areas for example, please complete the setting as follows:
Measure the distance by yourself (or by Landroid®M which will be described later)
Note: start points shown are for reference only, actual start points will be determined by the layout of your garden.
As shown in Fig.1, please measure the distance between the charging base and start point 1 (marked d1 ft). Then, measure the distance between start point 1 and start point 2 (marked d2 ft).
Distance for each area is shown in the table below:

Areas	Area 1	Area 2
Distance from the charging base	d1 ft	d1+d2 ft

Set the menu
After finishing the measurement, enter the "Customize work area" setting (See Fig. 2).
Press **OK** first, then input the number of areas (in this example, 2) as shown in Fig. 3. Press the **OK** button to confirm and the number will stop blinking.
Input corresponding distance for each area. Then input the "%work" which means the working time ratio in each area and should be proportional to the size of each area.
Note: The total "%work" should add up to 100%.
After these steps are completed, "Searching working area" will be displayed when Landroid®M starts to mow. It means that you have successfully made the "Customize work area" setting.
Note: If Area 1 is set to be 0 m and Landroid®M wants to mow Area 1, it will go directly to Area 1 without moving along the boundary wire

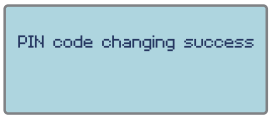
If your garden has 4 separated areas, just use the same method to measure the distance between the charging base and respective start points. Then set the menu accordingly.
Optionally, you can also use your Landroid®M to measure the distance.
Place Landroid®M on the boundary wire, close to the back of the charging base as shown in Fig.7.
Press and Landroid®M will move along the boundary wire. When it reaches required start point 1, press the STOP button and press button 2.
The user interface will appear on the display (See Fig. 8) and confirm the distance at the bottom of Fig. 8.
Make a note of this distance (marked d1 ft). Then press , close the cover and Landroid®M will continue to move from start point 1. When it reaches start point 2, make a note of the distance (marked d2 ft). Use the same method to measure the distance between start point 2 and start point 3 (marked d3 ft) , start point 3 and start point 4 (marked d4 ft).

Areas	Area 1	Area 2	Area 3	Area 4
Distance from the charging base	d1 ft	d1+d2 ft	d1+d2+d3 ft	d1+d2+d3+d4 ft

2.4 Enable boundary cut

If boundary cut function is enabled, Landroid®M will mow the grass along the boundary wire once a week.
Select YES/NO to activate/deactivate the boundary cut function.
Note: 1. This function will operate only in working time schedule with Landroid®M fully charged.
2. Press HOME button, and Landroid®M will mow the grass near boundary wire while it returns to the charging base.

3. Security ( )



3.1 Change PIN code

Using the ↑ ↓ keys to select then press **OK** .
Type the Old PIN (default PIN 0000), then press **OK**. Then type your New PIN and repeat it.

3.2 Alarm level

Use the ↑ ↓ keys to select the alarm volume setting.
High = loud setting (60~70dB)
Low = quiet setting (40~50dB)

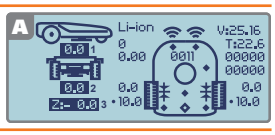
NOTE: If you input the wrong PIN code, the Landroid®M will be turned off automatically. Press On/Off key to On, input the correct PIN code, then Landroid®M will turn on again.
WARNING: If you decide to change the PIN code, be aware there's no way to restore the Landroid®M if you forget the PIN code. Please write your PIN code here and store this sheet in a safe place for future reference. Even better, register your Landroid®M online and enter your PIN code there. You will always be able to find your PIN online at **www.worx.com**.

Your PIN code

Function messages

Mowing	Cutting grass according to the program setting.
Raining	When it senses rain, Landroid®M will return to the Charging Base and stay there for the time you have programmed it to do so. When dry, Landroid®M will automatically begin the delay and countdown and then return to mow. If you want Landroid®M to mow before this, simply turn it off then on again, but only when the rain sensor is dry or you can set the delay time to 0 min.
Locating charger base	Needs to recharge—during the journey to the base, the cutting blade is stopped in order to save energy.
Charging	Charge is in progress—charge percentage are displayed.
Waiting for scheduled time	Stand-by, will start according to program set.
Searching working area	According to the setting of "Customize work area", Landroid®M is searching a certain area to mow.
Charge completed	Landroid®M has completed its charging.

Error messages

Outside working area	1. If Landroid®M is actually outside its territory: turn power off, take the Landroid®M inside its territory. Turn power on. 2. If the Landroid®M is inside its territory, check the LED on the charging base is green. If not, check the charging base is connected properly to the charger and the charger is connected to a suitable power supply. If so, it means that the boundary wire ends are clamped incorrectly, and you need to reverse them. 3. If the LED light flashes green, check the boundary wire is well connected to the clamps to the charging base. If the problem persists, check that the boundary wire hasn't been cut.
PIN code error	Refer to the "Programming" section to re-set your PIN.
Blade disc blocked	1. Turn power off. 2. Turn Landroid®M upside down and check if there's anything preventing the blade disc to rotate. 3. Remove any possible obstruction. 4. Turn Landroid®M upright and take it to an area with short grass or adjust the cutting height. 5. Turn power on.
Wheel motor blocked	1. Turn power off: take Landroid®M in an area free from obstacles. 2. Turn power on. 3. If the error message is still displayed; turn power off; turn Landroid®M upside-down and check if there's anything preventing the wheels from rotating. 4. Remove any possible obstruction, turn Landroid®M upright, turn power on.
Trapped	1. Turn power off. 2. Take Landroid®M to a lawn area free from obstacles. 3. Turn power on. 4. If the error message is still displayed; turn power off; turn Landroid®M upside-down and check if there's any debris causing a blockage in the top cover. 5. Remove any possible obstruction, turn the Landroid®M upright, turn power on.
Lifted up	1. Turn power off. 2. Take Landroid®M to a lawn area clear of obstacles, turn power on. 3. If the error message is still displayed: turn power off, turn Landroid®M upside-down and check there's nothing lifted up. 4. Remove any possible object, turn Landroid®M upright, turn power on.
Upside down	1. Turn Landroid®M upright. 2. If still not work, Firstly, position the mower on a horizontal surface. Press Key "2" to enter the diagnosis interface, and press Key "5" for a few seconds until the three numbers 1 2 & 3 highlighted below turn back to zero. (See Fig. A) 
Charging Base Blocked	1. The contact between the Charging and Contact Pins may be obstructed in some way. 2. Wipe off the Charging and Contact Pins, making sure there is not an object obstructing them, then place your Landroid®M in the charging base and check that the Pins make good connection.
Battery very low	1. This means that there is low battery voltage. 2. In this case you must turn Landroid®M off and place it in the Charging Base, then "charging" will be shown on screen, which means it starts charging.

Notes

- **If the above error messages appear on the display, correct the problems first, then press "0" to reset.**
- Before turning power on, always check Landroid®M is inside its territory. If not, the message "outside working area" will be displayed. This message is displayed also when Landroid®M is sitting over the boundary wire when turned on.
- If for any reason—i.e. a party, children playing...—you want to park your Landroid®M in the charging base: press the key with the home symbol. Landroid®M will go to its base and stay there. Please note Landroid®M will now wait until the next scheduled mowing session. If you want to re-start it, press STOP button, then press START button to start your Landroid®M.
- If an error repeatedly occurs in the same area of your lawn, you might have a problem with the boundary wire so please refer to the previous installation instructions and check your set up with its help.
- If your lawn is divided in two separated areas, connected by a corridor less than 3ft (1m), one of which is not provided with the charging base: when Landroid®M runs out of charge, take it manually to the charging base, turn power on, press the key with the home symbol and the charge process will start.
- If Landroid®M runs abnormally once in a while, please try to restart it. If the problem cannot be solved, please contact WORX Service Agent for help.
- Do not wash the machine with a high pressure washer. This could cause damage to the battery or the machine.
- Your Landroid®M software can be updated when new versions become available. The software version will be displayed in the diagnosis page by pressing button 2 on homepage. The latest software can be downloaded from our website www.worx.com. See the detailed guideline on download page. The manual supplied in the box is based on the default software in the mass production. Some new features/functions in the new version may not exist in the manual. If you find some settings that are not detailed in the manual, please visit www.worx.com to download the latest manual.

Fault symptoms

If your Landroid®M does not work correctly, follow the trouble shooting guide below. If the fault persists, contact your dealer. Refer to the Owner's Manual for Landroid®M component information.

Symptom	Cause	Action
Landroid®M turns on, but the Blade Disc does not move.	Landroid®M is searching for the Charging Base (except that you press the HOME button to make it go to the charging base, or the "Enable boundary cut" function is operating).	This is normal, Landroid®M needs to recharge, the Blade Disc does not rotate while it is searching for the Charging Base automatically.
Landroid®M vibrates.	Blades may be damaged. Check condition of the Blade Disc.	Check the Blades, and replace them if damaged . Remove debris and foreign objects from the blades and blade disc.
Grass is being cut unevenly.	Landroid®M does not work enough hours per day.	Add more hours to the mowing time.
	Mowing area is too big.	Try decreasing the size of the mowing area or adding more hours to the mowing time.
	Blades are dull.	Change all the Blades and screws in order to balance the Blade Disc.
	The cutting height is set too low for the length of the grass.	Raise the cutting height and then gradually lower.
	Grass or other object has wrapped around the blade disc.	Check the Blade Disc and remove the grass or other object.
	There is a build-up of grass in the Blade Disc or Motor Frame Box.	Make sure the Blade Disc rotates easily. If needed, you may take off the Blade Disc and then remove the debris. See How to Clean.
The LED light on the Charging base does not turn on.	There is no power.	Check the power cord is connected properly to the charger and the charger is connected to a suitable power supply.
Green light flashing on charging base.	The Boundary Wire isn't connected.	Check the boundary wire has been connected correctly to the charging base. Check there are no breaks in the boundary wire.
Your Landroid®M is inside its territory but the display says "outside working area" and the LED is green.	The boundary wire ends are clamped incorrectly.	Reverse the boundary wire ends.
The charging time is far more than 2h.	Poor connection caused by debris on the Charging Strip.	Clean the Contact Pins located on the Charging Base and the Charging Strip on Landroid®M using a cloth.
	The charging protection program has activated due to high temperature.	Place the charging base in a shady area or wait until the temperature has cooled down.
The mower does not charge.	There is no power.	Check the power cord is connected properly to the charger and the charger is connected to a suitable power supply.
	Does not operate correctly while manually charging.	Refer to manual charging in Owner's manual.
Landroid®M is starting to have shorter run-times between charges.	Something is clogged in the Blade Disc.	Take off the Blade Disc and clean it. The grass is too high and too thick.
	Landroid®M is shaking heavily.	Check the blade disc and blades, remove debris and foreign objects from the blades and blade disc.
	The battery may be exhausted or old.	Replace battery.
Landroid®M is not operating at the correct time.	The clock is not set to the correct time.	Set the clock to the correct time.
	Programmed cutting times for Landroid®M are not correct.	Change the time settings for the mower to start and stop.
Landroid®M can not correctly dock with the Charging Base.	Environmental influences.	Restart Landroid®M.
	Poor connection caused by debris on the Charging Strip.	Clean the Contact Pins located on the Charging Base and the Charging Strip on Landroid®M using a cloth
The Green light on the Charging Base turns ON before charging is complete.	The charging base is overheating, the LCD will display "Over temperature".	Place the charging base in a shady area or wait until the temperature has cooled down.
Landroid®M runs outside the boundary wire. Landroid®M does not mow an area within a boundary wire zone. Landroid®M reverses or rotates erratically near the boundary wire.	The boundary wire of another Landroid®M or another branded robotic mower is positioned too closely.	Ensure your Landroid®M Boundary Wire has at least 1.5ft (0.5m) of spacing between the neighboring boundary wire.
	The boundary wire has been installed with tight corners.	Check the boundary wire to ensure the corners are smooth.
	In wet conditions, the boundary wire electric signal may leak were wire has been joined or repaired.	Check boundary wire joints. Insulate to provide a fully waterproof connection.
	There is boundary wire electric signal leakage due to broken insulation.	Repair damaged boundary wire insulation with insulation tape.
	The cutting area is larger than the allowable cutting area for Landroid®M.	Contact service agent.
Landroid®M wheels skid or damage lawn.	Foreign obstacles, such as twigs and branches may be lodged under Landroid®M.	Remove foreign objects from underside of Landroid®M.
	The lawn is too wet.	Wait until lawn has dried.
Landroid®M exits the boundary wire due to high speed when going down a hill.	The Boundary Wire is placed on a slope steeper than 25%(15°).	Reposition the Boundary Wire away from slopes that are steeper than 25%(15°). Please refer installation manual for details.