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› Yard Force NX100i Robotic Mower User Manual

## Yard Force NX100i

# Yard Force NX100i Robotic Mower User Manual

Model: NX100i

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation, setup, and maintenance of your Yard Force NX100i Robotic Mower. Please read this manual thoroughly before using the product and retain it for future reference.

The Yard Force NX100i is an advanced robotic lawnmower designed to automatically maintain your lawn. It features a 28V lithium-ion power system, Wi-Fi and Bluetooth connectivity for app control, and a smart safety suite including iRadar ultrasonic sensors, a rain sensor, and lift/tilt detection.

## 2. SAFETY INFORMATION

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Always prioritize safety when operating or maintaining the robotic mower. Failure to follow safety instructions may result in injury or damage to the product.

- **Read all instructions:** Familiarize yourself with the controls and proper use of the appliance.
- **Keep children and pets away:** Ensure children and pets are not in the mowing area when the mower is operating.
- **Inspect the area:** Before each use, clear the lawn of any objects such as stones, toys, or wires that could be thrown by the blades.
- **Blade safety:** Never attempt to lift or carry the mower while the blades are rotating. Always switch off the mower and wait for the blades to stop completely before handling.
- **Emergency Stop:** Know the location and function of the emergency stop button.
- **Avoid wet conditions:** The mower is equipped with a rain sensor. Avoid manual operation in heavy rain or very wet conditions to prevent damage and ensure safety.
- **Maintenance:** Only perform maintenance as described in this manual. For complex repairs, contact qualified service personnel.

## 3. SETUP

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### 3.1 Unboxing and Initial Inspection

Carefully remove all components from the packaging. Inspect for any damage. Ensure all parts listed in the packing contents are present.

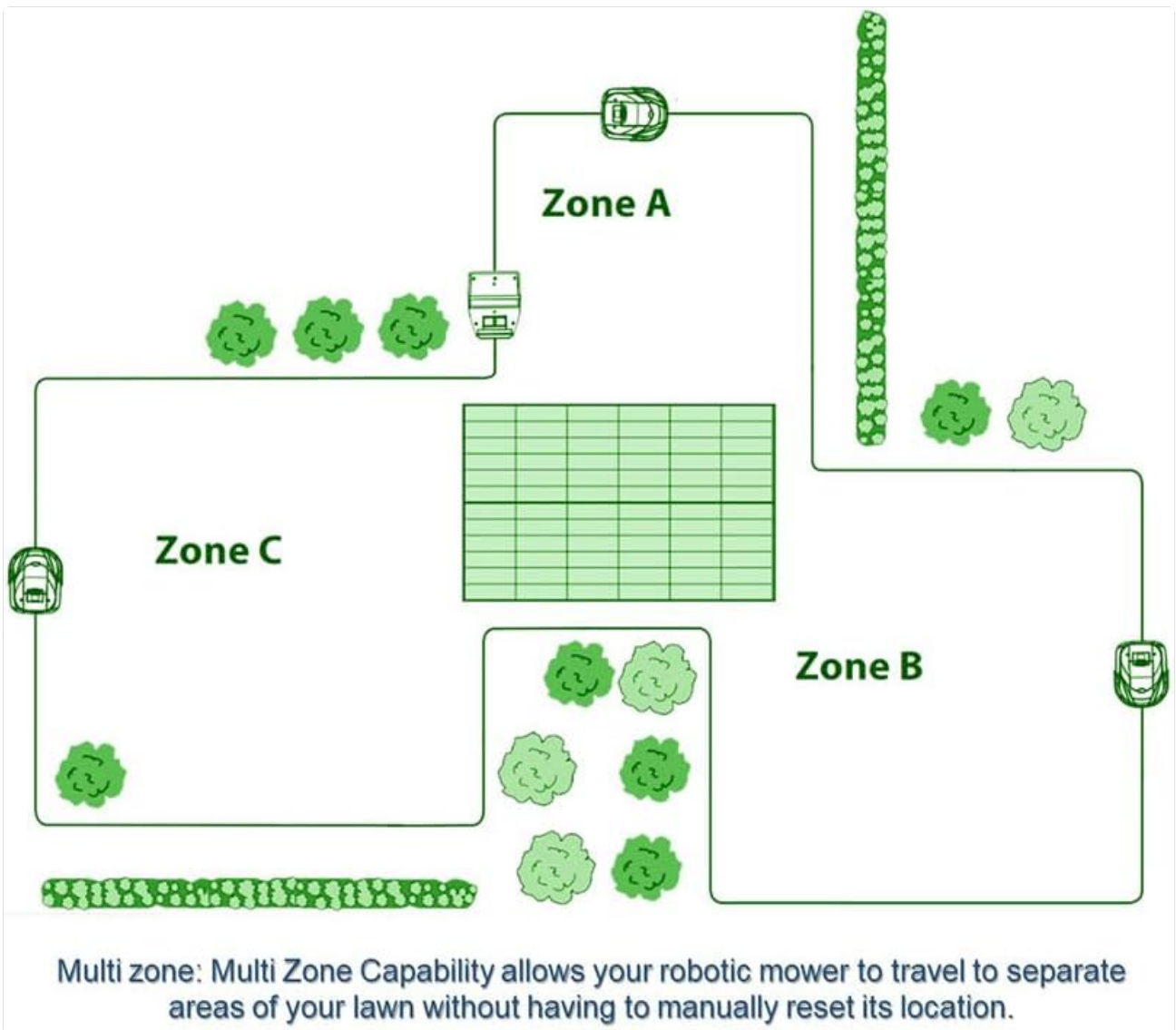
### 3.2 Charging Station Placement

Select a suitable location for the charging station. It should be on a flat surface, away from direct sunlight or irrigation systems, and with access to a power outlet. Ensure enough clear space around the station for the mower to dock easily.

### 3.3 Boundary Wire Installation

The NX100i operates within a defined area using a boundary wire. This wire must be laid around the perimeter of your mowing area and any obstacles you wish the mower to avoid.

1. **Plan your layout:** Sketch your lawn area, identifying obstacles and areas to exclude.
2. **Lay the wire:** Secure the boundary wire to the ground using the provided pegs. Ensure the wire is taut and laid flat. For permanent installation, the wire can be buried a few inches deep.
3. **Connect to charging station:** Connect both ends of the boundary wire to the designated terminals on the charging station.



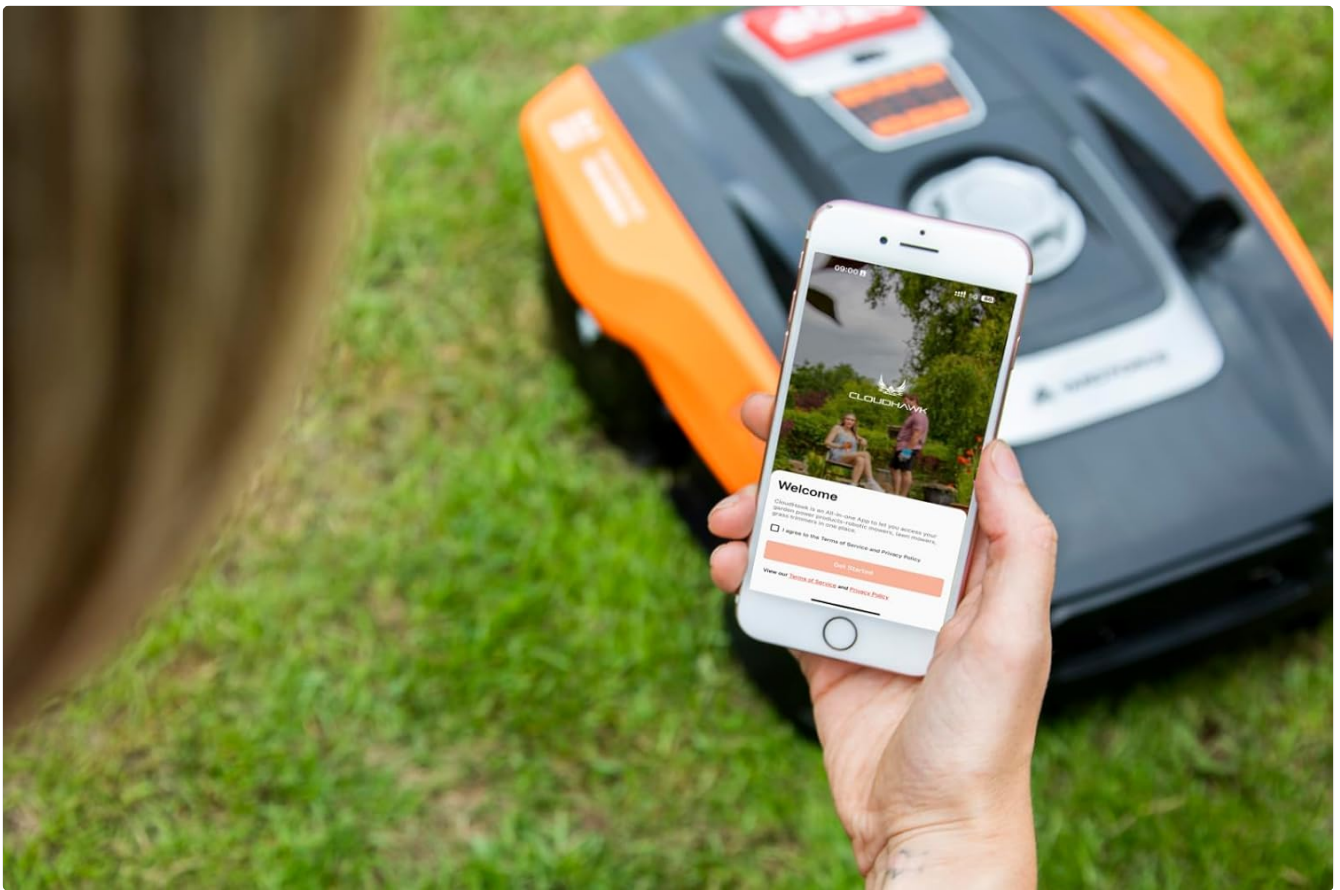
**Image: Multi-Zone Capability Diagram.** This diagram illustrates how the robotic mower can be configured to operate in multiple distinct zones (Zone A, Zone B, Zone C) within a larger lawn area, navigating between them without manual intervention. This is achieved by strategically laying the boundary wire to define these zones.

### 3.4 Initial Charging

Once the charging station and boundary wire are set up, place the mower on the charging station. The mower will begin charging. Allow for a full charge before the first operation (approximately 90 minutes for a quick recharge).

### 3.5 App Control and Wi-Fi Connection

Download the CloudHawk app to your smartphone. Follow the in-app instructions to connect your mower to your home Wi-Fi network and pair it with your device via Bluetooth. This enables remote control and scheduling.



**Image: CloudHawk App Control.** A user is shown interacting with the CloudHawk mobile application on a smartphone, positioned near the Yard Force NX100i robotic mower. The app interface is visible, indicating the ability to control and monitor the mower remotely.

### 3.6 Setting Cutting Height

The cutting height can be adjusted to suit your lawn's needs. The mower offers five cutting heights ranging from 1.3 to 3 inches (3.3 to 7.6 cm).



**Image: Cutting Height Adjustment.** A hand is shown turning a dial on the top of the robotic mower, which is used to adjust the cutting height of the blades. The dial has numerical markings, indicating different height settings.

## 4. OPERATING THE MOWER

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### 4.1 Starting and Stopping

- **To Start:** Press the 'Start' button on the mower's control panel or initiate mowing via the CloudHawk app.
- **To Stop:** Press the large red 'STOP' button on the mower. The mower will cease operation immediately.

### 4.2 Scheduling Mowing Times

Use the CloudHawk app to set a regular mowing schedule. You can define specific days and times for the mower to operate automatically. The mower will return to its charging station when its battery is low or when its scheduled task is complete.

### 4.3 Smart Safety Features

- **iRadar Ultrasonic Sensors:** These sensors detect obstacles in the mower's path, allowing it to steer around them and prevent collisions.
- **Rain Sensor:** The mower will automatically pause its operation and return to the charging station if it detects rain, resuming its schedule once conditions improve.
- **Lift/Tilt Detection:** If the mower is lifted or tilted during operation, the blades will immediately stop to ensure safety for people and pets.



**Image: iRadar Ultrasonic Sensor.** A detailed view of the iRadar ultrasonic sensor located on the front of the Yard Force NX100i robotic mower. This sensor is crucial for detecting obstacles and ensuring the mower navigates safely around them.

#### **4.4 Mowing Performance**

The powerful yet quiet brushless wheel motors enable the mower to handle slopes up to 40% gradient. It cuts a 7-inch (18 cm) swath, providing efficient and consistent lawn coverage with zero emissions.



**Image: Mower in Operation.** The Yard Force NX100i robotic mower is actively cutting grass in a well-maintained garden. In the background, two individuals are relaxing, highlighting the autonomous nature of the mower.



**Image: Relaxed Lawn Care.** A man is shown relaxing in a garden chair, wearing sunglasses, while the Yard Force NX100i robotic mower is visible on the lawn nearby, demonstrating the convenience of automated lawn maintenance.

## 5. MAINTENANCE

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### 5.1 Blade Inspection and Replacement

Regularly inspect the mower blades for wear or damage. Dull or damaged blades can affect cutting performance. Replace blades as needed, ensuring the mower is powered off and the battery is disconnected before handling the blades.

### 5.2 Cleaning

Keep the mower clean to ensure optimal performance. Regularly remove grass clippings and debris from the chassis, wheels, and blade area. Use a soft brush or cloth. Avoid using high-pressure water jets directly on the mower.

### 5.3 Battery Care

The 28V lithium-ion battery is designed for long life. For best results, allow the mower to fully charge and discharge as part of its normal operation. Store the mower in a dry, protected area during off-season periods, ensuring the battery is partially charged.

## 6. TROUBLESHOOTING

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If you encounter issues with your Yard Force NX100i Robotic Mower, refer to the following common troubleshooting steps:

- **Mower not starting:** Check if the battery is charged and properly seated. Ensure the emergency stop button is disengaged. Verify the boundary wire is correctly installed and connected.

- **Mower getting stuck:** Inspect the mowing area for obstacles. Ensure the boundary wire is laid correctly around complex areas. The iRadar sensors should help avoid most obstacles.
- **Poor cutting performance:** Check the blades for sharpness and damage. Adjust the cutting height if the grass is too long.
- **Mower not returning to charging station:** Verify the charging station is powered on and the boundary wire is intact. Ensure no obstacles block the path to the station.
- **App connectivity issues:** Check your Wi-Fi and Bluetooth connections. Ensure the mower is within range of your Wi-Fi network. Restart the app and the mower if necessary.

For persistent issues, consult the full troubleshooting guide available on the Yard Force website or contact customer support.

## 7. SPECIFICATIONS

Feature	Specification
Brand	Yard Force
Model Number	NX100i
Power Source	Battery Powered (28V Lithium-ion)
Material	Plastic
Color	Orange
Item Weight	29.3 Pounds (13.3 kg)
Cutting Width	7 inches (18 cm)
Operation Mode	Automatic
Product Dimensions (D x W x H)	34" x 22" x 15" (86.4 cm x 55.9 cm x 38.1 cm)
Adjustable Cutting Height	1.3 - 3 inches (5 positions)
Max Slope Capability	40%
Mowing Time per Charge	80-90 minutes
Recharge Time	90 minutes

## 8. WARRANTY AND SUPPORT

### 8.1 Warranty Information

The Yard Force NX100i Robotic Mower comes with a two-year residential warranty. Please retain your proof of purchase for warranty claims. The warranty covers defects in materials and workmanship under normal use.

### 8.2 Customer Support

For technical assistance, warranty claims, or spare parts, please contact Yard Force customer support. Contact details can typically be found on the official Yard Force website or on the product packaging.

## 9. PRODUCT OVERVIEW

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Here are additional views of the Yard Force NX100i Robotic Mower:



**Image: Front-Side View.** A dynamic front-side view of the Yard Force NX100i robotic mower, showcasing its sleek design and orange accents, positioned on a green lawn.



**Image: Side Profile.** A clear side profile of the Yard Force NX100i robotic mower, highlighting its wheels, chassis, and the 'Brushless Motor' branding.



**Image: Front View.** A direct front view of the Yard Force NX100i robotic mower, showing its robust design and the front sensors.

## 10. INSTRUCTIONAL VIDEO

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Watch this video for a detailed overview of the Yard Force NX100i Robotic Mower, including unboxing, setup, and initial operation.

Your browser does not support the video tag.

**Video: Yard Force NX100i Overview and Setup.** This video provides a comprehensive look at the Yard Force NX100i robotic mower, demonstrating its features, the unboxing process, how to set up the boundary wire, and its initial operation in a lawn environment. It covers the basic steps to get your robotic mower ready for use.