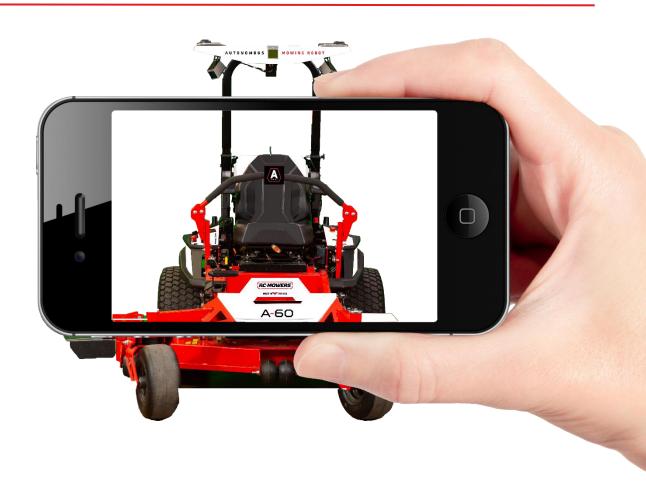
RC Mobile AMR Application

User Manual





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Document Revision History Log

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AUTONOMOUS MOWING ROBOT

REDEFINING THE BUSINESS OF MOWING

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GENERAL INFORMATION

The Autonomous Mowing Robot[™] is a revolutionary product that directly addresses the labor availability problems in the landscaping industry. With our autonomous mowers, landscape contractors can reduce the number of employees needed to handle mowing jobs. For the AMR and its operator to succeed, use the RC Mobile Application to aid with robotic mode.

TO UNDERSTAND THE USE AND OPERATION OF OUR AMR, PLEASE READ THIS MANUAL IN ITS ENTIRETY.

INTENDED USE AND PRECAUTIONS

The A-Series RCM Robotics Autonomous Mowing Robot™ (AMR) is an industrial/commercial robotic rider mowing machine. The machine can be operated in either robotic mode (without the operator seated) or manual mode (with the operator seated. The RC Mobile application is necessary for running the AMR in robotic mode. One application controls multiple robots and only one user has access to each login.

Do not use this application and paired machines without proper training. Without the proper knowledge, operating the machine may result in death or injury to you or bystanders, or property damage.

REGISTER YOUR OPERATOR

Before operating your application, a user is registered by a company manager at the RC Mowers Owner portal. The following information will lead you to registering operators correctly:

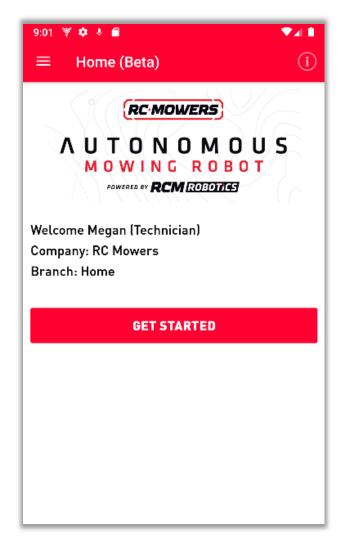


SAFETY

Refer to the Autonomous Mowing Robot $^{\text{TM}}$ Operator Manual to ensure all trained operators are knowledgeable on ALL safety points before continuing with operation.



APPLICATION SET-UP



To use the AMR in robotic mode, any trained operator must have the RC Mobile application on an Android device. This application MUST be downloaded from an RC Mowers-approved source. Any RC Mobile application not downloaded from an approved source is not an official RC Mowers product and is not supported by the terms of service and RC Mowers.

Expect support for iOS apps in the coming future.

Users will not be able to use the application if they are not registered operators.

Once the RC Mobile app is downloaded, they need to log in.



LOG IN

When opening the application for the first time, the user is brought to the login page. Enter the operator's phone number and wait for the phone to get a pin sent in a text message. Once the correct pin is entered, the app will log in and bring the user to the home page.

Note: the pin number expires after 5 minutes, at that point the user will have to resend a pin.

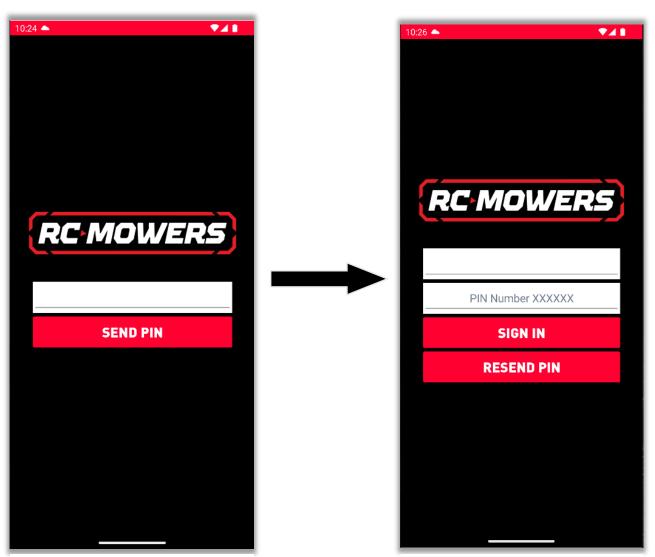


Figure 1: Enter Phone Number

Figure 2: Enter Pin from text message.



HOME PAGE

The top left corner menu icon opens the navigation that brings the user to different sections of the app. The top right info icon opens the about page, which provides information about the application.

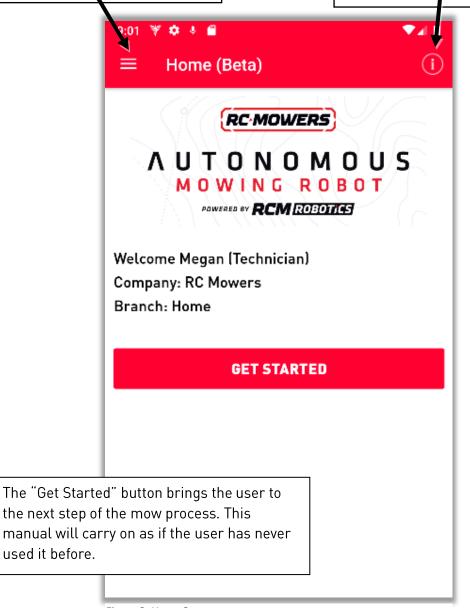


Figure 3: Home Screen



MOWER CONNECT PAGE Connected Machines DONE This button enables after at least one mower is connected. NO MOWERS CONNECTED CONNECT TO CONTINUE **Connected Machines** DONE Mower #501447 DISCONNECT Press the "connect" button to bring up the dialogue box. Enter the mower pin from the screen on the mower to connect to it. CONNECT Figure 4: Connect page while no mowers Once a mower is connected, connected. press "done" to go to the mow page or "connect" to add another mower. Enter Mower Pin The pin is shown on the LCD. CANCEL oĸ Figure 5: Mower pin dialogue box CONNECT

Figure 6: Connect page while a single mower is connected.



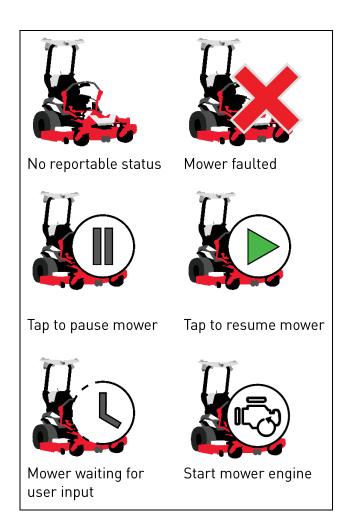
MOW PAGE



Figure 7: Mow Page toolbar



Figure 8: Mow page Mower tab



The mow page is where the majority of mower work happens. Here is where a user sends plans, edits mower settings, and maintains the status of all connected mowers.

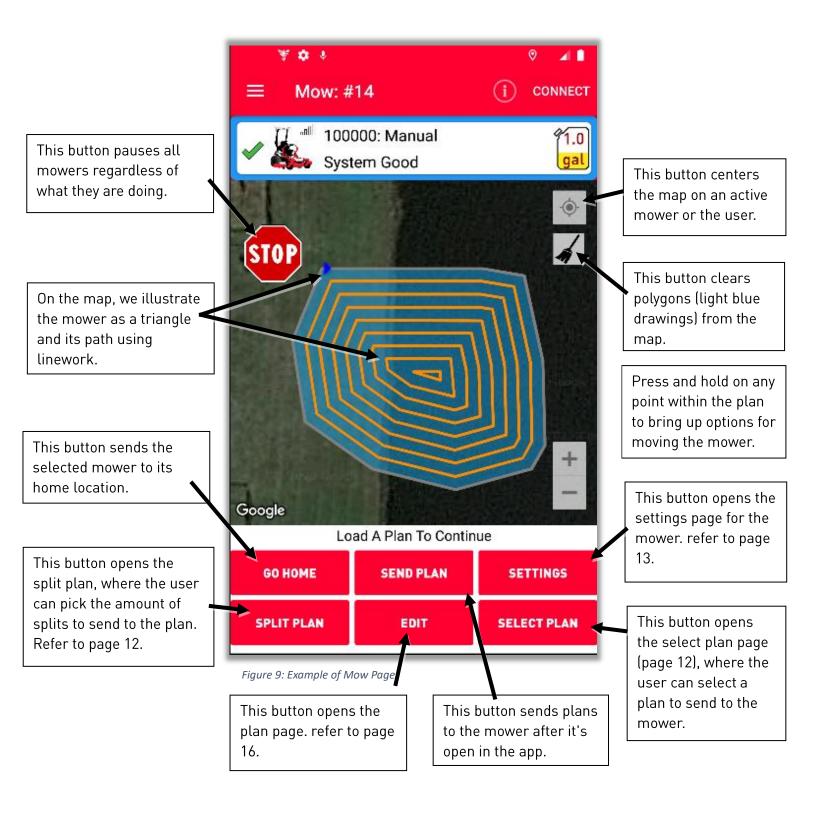
The toolbar at the top of the screen has three interactable buttons. The leftmost button (a.) is the menu button that navigates the user across the application. The (i)(b.) opens the "Status Light Guide," a reference for what the Status Indicating Lights on the machine mean. The "connect" button (c.) will take the user to the mower connect page.

The mower tab is the tab across the screen that displays information about the mowers. On the left, the checkmark (d.) lets the user know if they have selected that mower and can change its settings, send plans, etc. The mower image (e.) reflects some statuses of the mower: if it is waiting on input from the user, if it has faulted, and if it can be paused or resumed freference table on left).

The labels reference the mower status. The top text (f.) describes WHAT the mower is doing. The bottom text (g.) conveys HOW the mower is running.

The gas can (h.) relates to the amount of gas within the machine.







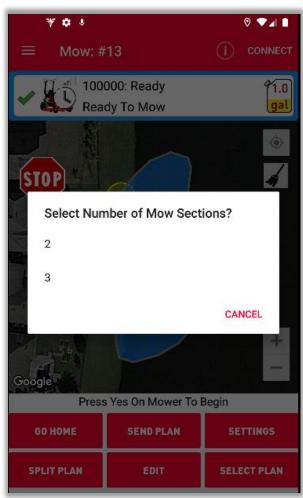


Figure 11: The dialogue box immediately after tapping the split plans button.

By selecting the desired mower and then tapping on the mow section, a user can send the section as a plan to that mower.

> NOTE: The mower must be inside the MOW SECTION in order to begin mowing.

This dialogue box allows the user to split plans into two or three evenly separated sections.

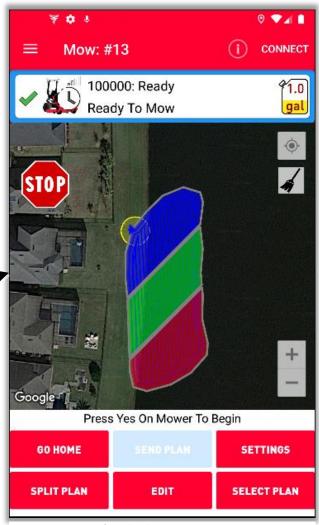


Figure 10: A view of a split plan



STATUS LIGHTS QUICK GUIDE **SOLID WHITE NOT LOGGED IN** 41016 **PULSING WHITE** COMPUTER TURNING ON/OFF ンレ **FLASHING WHITE UPDATING SOLID GREEN** SYSTEM READY վիսի **PULSING GREEN** READY TO MOW/LOCAL PAUSE FAULT/ERROR WHEN NOT MOWING/ **SOLID BLUE NOT PAUSED SOLID AMBER** PAUSED (ROBOTIC) 4 1011 **PULSING AMBER** STOPPED FOR OBJECT (ROBOTIC) MILL **STROBING AMBER OPERATING** (ROBOTIC) ERROR WHILE MOWING **SOLID RED** (AUTO-RESUMES WHEN CLEAR) 11/ FAULT WHILE MOWING **FLASHING RED** (NO AUTO-RESUME) ժիսի **PULSING RED** E-STOP

Figure 12: A guide for the status indicating lights. The guide can be accessed from the mow page through the info icon on the toolbar.



SELECT PLAN PAGE

Use the search bar to bring up a specific plan.

The blue shape relays the shape of the plan. When a mower is selected, the circle shows up next to the plans the mower is inside. The color of the image matches the color of the mower.

← Select a Plan SORT BY

SORT BY: LOCATION

Q Enter Name, Address or Operator

#1367 by Megan Rakow 10692 Warlow Creek St, 32832

2/7/2023 10:53:47 AM (0.03 acres)

test 2 by Josh Taylor 4018 Stewarts Ln, 37218

11/2/2022 9:06:39 AM (2.48 acres)

Test Megan by Josh Taylor 4018 Stewarts Ln, 37218

11/2/2022 9:37:41 AM (1.78 acres)

1215 by Josh Taylor

4018 Stewarts Ln, 37218

11/2/2022 9:44:09 AM (1.84 acres)

#1265 by Demo1 Operator

3001-3029 Hill St, 78664

The labeling for the plans is as follows:

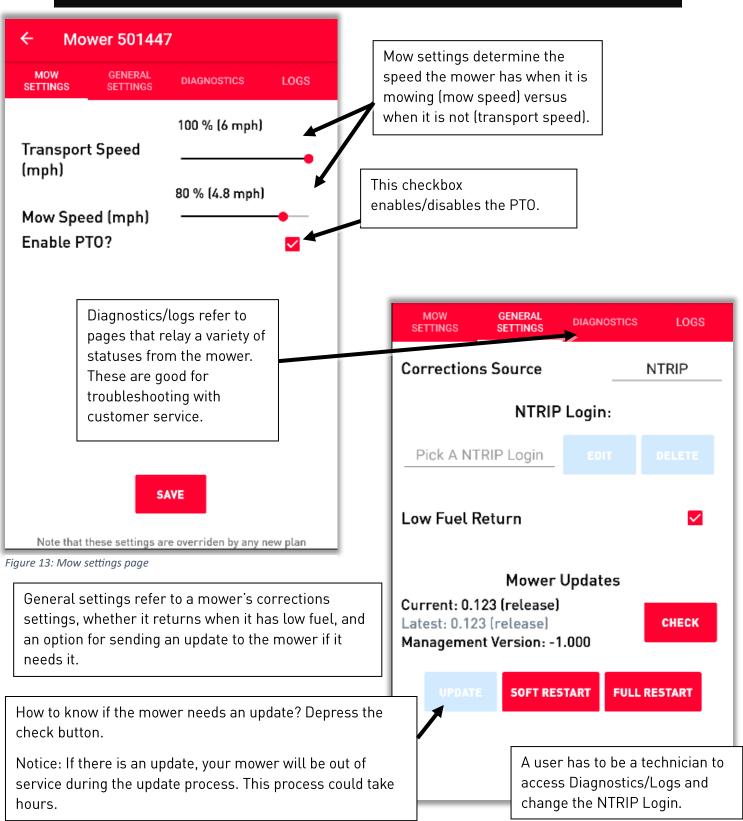
- The top line is the name of the plan plus the name of the operator who created it.
- The second line is the street address closest to the plan.
- The bottom line is date, time, and size (acres).

This button can change the way the plans sort. Including Location (closest to mower), Name, Date (newest), Date (oldest), and recently mowed.

Tapping on one of these plans sends it to the previous page.



MOWER SETTINGS PAGE





MACHINES PAGE

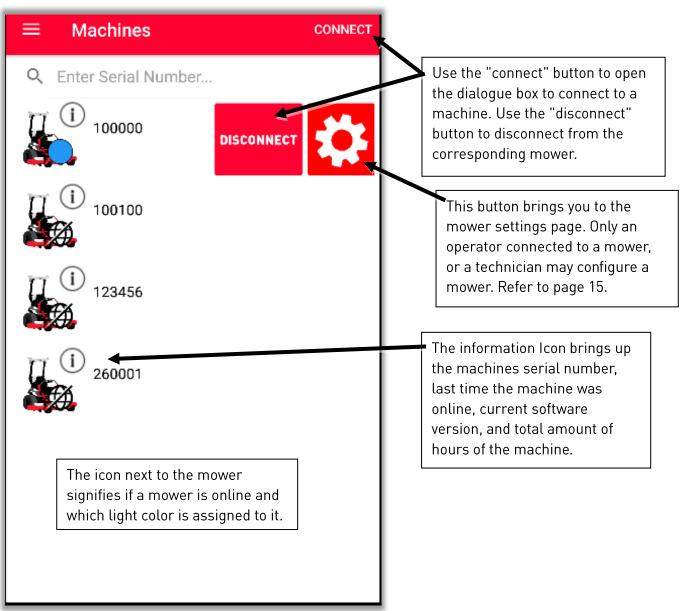
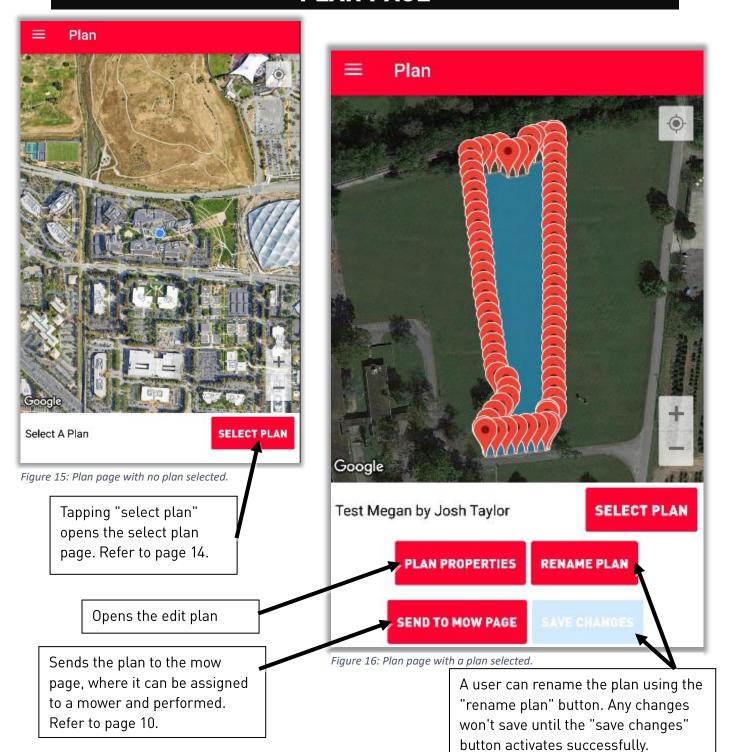


Figure 14: Machines page with one machine active



PLAN PAGE





EDIT PLAN PAGE

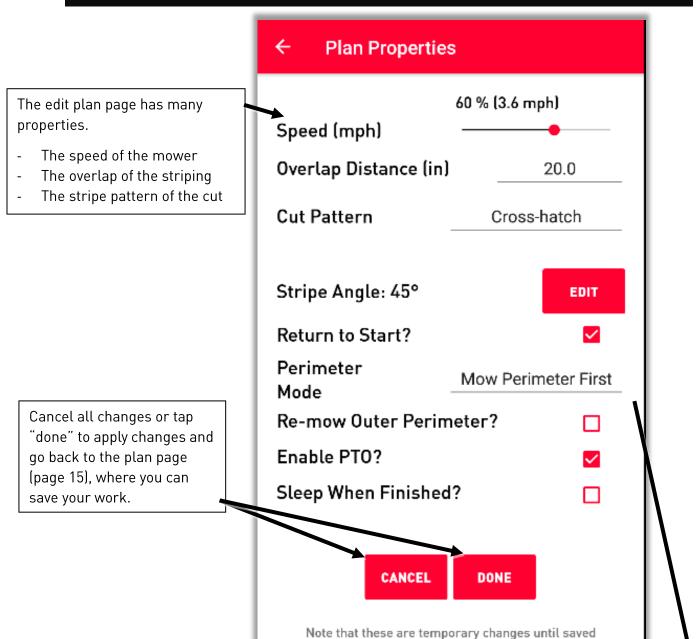


Figure 17: Edit plan page.

- Return home when finished.
- Mow perimeter first, last, or skip it?
- Re-mow the perimeter of the plan or begin inside the headline?
- Enable the PTO when mowing?
- Go into sleep mode when finished?



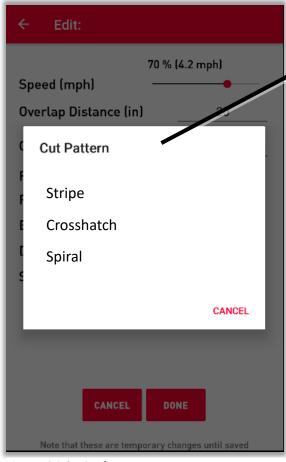


Figure 18:Selection for cut patterns.

Once the user enters the desired stripe angle, the "apply" button will apply it to the plan, but you MUST save changes to make them permanent.

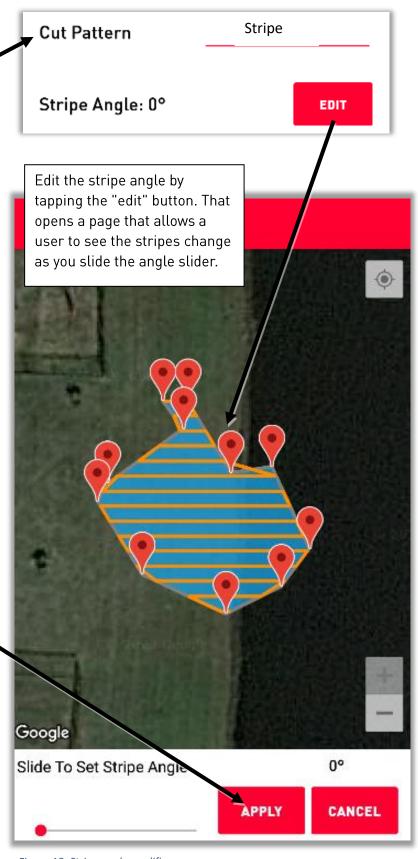


Figure 19: Stripe angle modifier page



MONITOR PAGE

The monitor page gives the user viewing access to all mowers within a company. They can view the following details about each mower when selected.

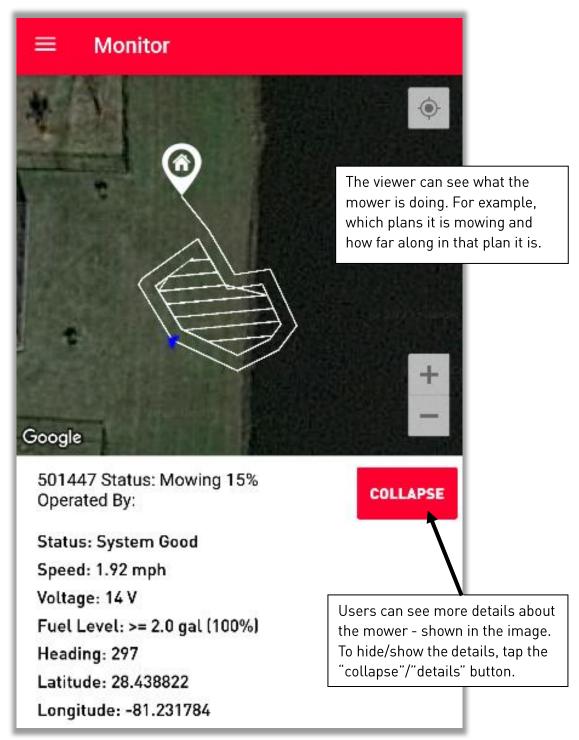
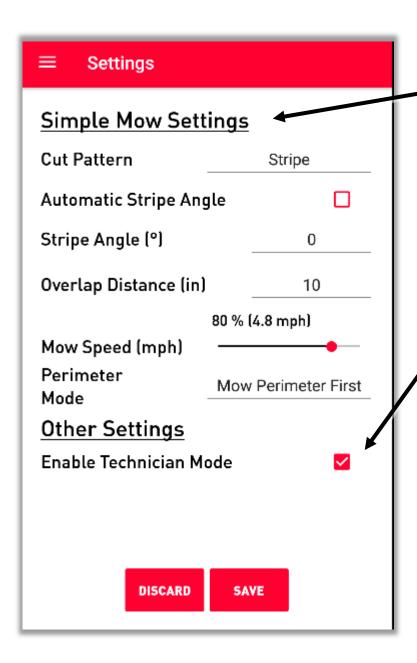


Figure 20: Monitor page focused on a mower mowing a plan.



SETTINGS PAGE



Simple mow settings refer to the settings that apply to plans created during Simple Mow. These settings apply to ALL Simple Mow plans created by all connected mowers.

"Enable Technician Mode" refers to settings only accessible by technicians. If a user is not assigned the technician role, they do not have access to this setting.





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