



AUTONOMOUS MOWING ROBOT

POWERED BY **RCM ROBOTICS**



OPERATOR'S MANUAL

RCMOWERSUSA.COM

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Model: 281330

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EN ENGLISH

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WELCOME

We are pleased that you've chosen RC Mowers as your business partner. We have worked long and hard to bring this incredible technology to you. We are confident that our Autonomous Mowing Robots™ will help you elevate your business. Nothing is more important to us than your success. Please do not hesitate to reach out with any questions, concerns, or ideas.

Have Questions or Need Assistance?
Visit us at: **RCMowersUSA.com**
Email us at: **support@rcmowersusa.com**
Or reach us by phone at: **(920) 634-2227**

MANUALS

This manual provides important information about how to operate your mower safely. Before attempting to operate or service the unit, read the manual carefully and completely. Follow all instructions and safety precautions. If you do not understand or have difficulty following the instructions, contact RC Mowers. The engine on this unit is covered by a separate manual. Refer to the engine manual for engine service recommendations. Contact the engine manufacturer for a replacement manual if necessary. Your dealer must review important information in this manual with you before or upon delivery of the unit. It is your responsibility to read and understand all safety precautions and instructions in the manuals.

As we continuously strive to provide the best experience for our customers, please go to our 'HELP' page <https://amroperator.com/help> to access the latest updates and most recent version of this manual, as well as our training materials. For quick access to the 'HELP' page, scan the QR code below:



INTENDED USE AND PRECAUTIONS

The A-Series Autonomous Mowing Robot is an industrial/commercial robotic rider mowing machine. This machine can be operated in either robotic mode (without an operator in the seat) or manual mode (with an operator in the seat). The mower is intended for outdoor use only. Do not use this machine on gravel, rocky terrain, or areas where grass is so tall you cannot see what is within it. This machine is not intended for use on public roadways. Do not use this machine in any way other than described in this Manual.

DISCLAIMER

RC Mowers reserves the right to discontinue, make changes to, and add improvements upon its products at any time without public notice or obligation. The descriptions and specifications contained in this manual were in effect at printing. Equipment described in this manual may be optional. Some illustrations may not be applicable to your unit.

SAFETY

This manual provides important information about how to operate your mower safely. Read and follow these safety rules closely. Failure to follow these rules could lead to death or severe injury to you or to bystanders, or damage to property. If you do not understand or have difficulty following the instructions, contact RC Mowers or your dealer.



WARNING! This cutting machine is capable of amputating body parts and throwing objects. Failure to observe the safety instructions in the manual and on decals could result in death or serious injury.

The operator is responsible for the proper use of the machine in both manual and robotic mode. The operator must use the machine in accordance with its intended use and precautions described in this manual. Do not allow others to operate this mower unless they have been properly trained in safe mowing practices as explained in this manual.

PRACTICES AND LAWS

Practice usual and customary safe working precautions. Learn applicable rules and laws in your area. Always follow the practices set forth in this manual.

Operators shall not engage in any of the following conduct or activities with respect to the RCM Robotics Services:

- Exploitation of the Robotic Services or the mower hardware in any unauthorized manner, including by trespassing or burdening server or network capacity or infrastructure.
- Framing, mirroring, or reselling any part of the Robotic Services without written authorization from RC Mowers USA.
- Unauthorized collection of user information; or
- Attempting to deliberately damage the Robotic services or undermine the legitimate operation of the Robotic Services.

REQUIRED TRAINING



Read and understand the Operator's Manual and decals on the unit. This information is for your safety and the proper use of your equipment. Failure to follow these instructions and warnings may cause death or serious injury. If you loan, rent or sell this product to others, provide them with all manuals.

TRAINING REQUIRED

Before operating this mower, you must be properly trained in safe mowing practices, or you and others may be injured.

Read and understand your owner's manual. If you do not have a complete manual, contact RC Mowers at 920-634-2227 or at www.rcmowersusa.com before using the equipment.

FOLLOW THESE SAFETY PROCEDURES:

- Read and understand the owner's manual.
- Wear personal protective equipment (PPE).
- Learn all safety decals explained in this manual and the safe operation of the machine.
- Stay at least 15 feet (5 meters) away from mower when operating. Keep bystanders away.

SAFETY ALERT SYMBOL



This is the safety alert symbol. It means:

- **ATTENTION!**
- **YOUR SAFETY IS INVOLVED!**

When you see this symbol:

- **BECOME ALERT!**
- **OBEY THE MESSAGE!**

SIGNAL WORDS

The safety alert symbol above and signal words below are used on decals and in this manual. Read and understand all safety messages.

DANGER



Indicates a HAZARDOUS SITUATION, which, if not avoided, WILL RESULT in death or serious injury.

WARNING



Indicates a HAZARDOUS SITUATION which, if not avoided, COULD RESULT in death or serious injury.

CAUTION



Indicates a HAZARDOUS SITUATION which, if not avoided, COULD RESULT in minor or moderate injury.

NOTICE

Indicates information or procedures that are considered important but not hazard related. If not avoided, property damage could result.

IMPORTANT

Indicates general reference information worthy of special attention.

SAFETY DECALS

The safety decals on your machine are visual reminders of the important safety information in this manual. Be sure all operators fully understand and follow these safety messages. Safety decals on the machine are explained below. ALWAYS replace missing or damaged safety decals. Replacement decal parts may be ordered directly from RC Mowers. (See *Figure 1* for safety decal locations.)

SAFETY DECAL LOCATIONS

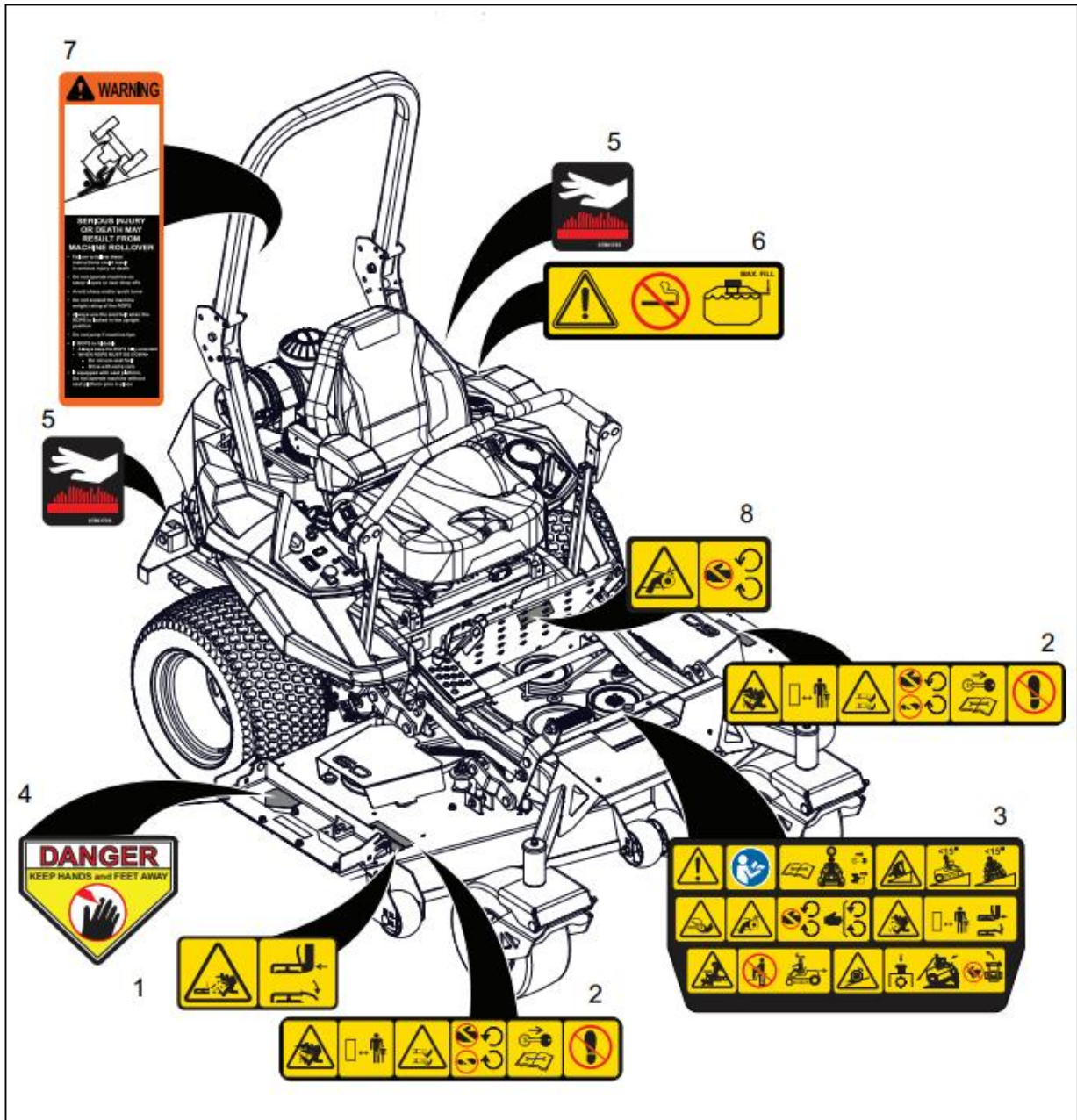




















Figure 1




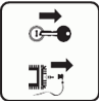
SAFETY DECAL IMAGE DEFINITIONS




| DANGER! | | | |
|---|--|---|--|
|  | Keep children and others away from unit while unit is in operation. |  | Amputation Hazard – NEVER stick hands or feet under deck or shielded areas |
|  | Shut off engine, remove key, and read manual before servicing or adjusting unit. |  | DO NOT operate mower unless all guards are in operating position. |
|  | Keep feet and hands away from all rotating or moving parts. |  | DO NOT step or stand in this area. |
|  | Read and understand the operator's manual before operating unit. |  | DANGER! |





| AMPUTATION HAZARD | | | |
|---|---|---|---|
|  | To avoid amputation hazard DO NOT put hands near rotating blades. |  | To avoid amputation hazard DO NOT put hands near moving belts |
|  | Keep hands away from all rotating or moving parts. |  | Keep all guards and shields in place. |



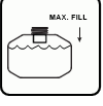

| DISCHARGE HAZARD | | | |
|---|--|---|---|
|  | Discharge Hazard – NEVER direct discharge toward people, pets, or property. Thrown objects can cause injury or damage. |  | DO NOT operate mower unless all guards are in operating position. |
|  | Keep children and others away from unit while unit is in operation. | | |


| TIPPING HAZARD | | | |
|---|------------------------------------|---|------------------------------------|
|  | Avoid tipping hazard. |  | DO NOT operate on slopes over 15°. |
|  | DO NOT operate on slopes over 15°. | | |


| SERVICE HAZARD | | | |
|---|---|---|--------------------|
|  | Before servicing unit do the following: | | |
|  | Read owner's manual before servicing or adjusting unit. |  | Set parking brake. |
|  | Remove the key and disconnect spark plugs before servicing or adjusting unit. | | |

| BYSTANDER HAZARD | | | |
|---|--|---|--|
|  | DO NOT operate the unit in the presence of bystanders. |  | Look behind when operating in reverse. |
|  | DO NOT carry passengers. | | |

| LOSS OF TRACTION HAZARD | | | |
|---|--|---|---------------------------|
|  | If loss of traction is experienced do the following: | | |
|  | Disengage PTO. |  | Proceed off slope slowly. |
|  | DO NOT try to turn or speed up | | |

| DANGER | |
|---|---|
|  | ALWAYS keep hands and feet away from discharge chute. |
|  | DANGER! |
|  | <p>IMPORTANT: DO NOT overfill. Fill fuel tank to below bottom of filler neck.</p> <p>WARNING: Overfilling may cause severe damage to evaporative system!</p> <ul style="list-style-type: none"> • NEVER fill fuel tank when engine is running, hot or unit is indoors. NEVER overfill fuel tank. • Replace fuel cap securely and clean up spilled fuel. |
|  | No smoking. |

| HOT PARTS! | |
|---|--|
|  | DO NOT touch parts which are hot from operation. ALWAYS allow parts to cool. |

| WARNING! | |
|---|--|
|  | <p>DEATH OR SERIOUS INJURY may result from machine rollover.</p> <ul style="list-style-type: none"> • Failure to follow these instructions could result in death or serious injury. • DO NOT operate machine on steep slopes or near drop offs. • Avoid sharp and/or quick turns. • DO NOT exceed the machine weight rating of the ROPS. • ALWAYS use the seat belt when the ROPS is locked in the upright position. • DO NOT jump if machine tips. • If ROPS is foldable: <ul style="list-style-type: none"> - ALWAYS keep the ROPS fully extended. <p>WHEN ROPS MUST BE DOWN:</p> <ul style="list-style-type: none"> - DO NOT use seat belt. - Drive with extra care. - DO NOT operate machine without seat platform or locks engaged. |
| | <p>ROLLOVER PROTECTIVE STRUCTURE</p> <p>To maintain operator protection and roll bar certification:</p> <ol style="list-style-type: none"> 1. Replace a damaged roll bar, DO NOT attempt to repair, or modify. 2. Any alteration of the roll bar must be approved by the manufacturer. 3. DO NOT exceed the machine weight rating of the roll bar |

SAFETY INSTRUCTION

The following safety instructions are based on American National Standards Institute and ISO specifications in effect at the time of production.

Safe Practices for Ride-On Mowers

If used improperly, this machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in death or serious injury. Use only for purposes intended as set forth in the Operator's Manual. Other use is improper and may cause serious injury or death.

General Information

Read, understand, and follow instructions and warnings in this manual and on the machine, engine, and attachments.

Only allow operators, who are at least 18 years old, responsible, trained, familiar with the instructions, physically and mentally capable to operate the machine.

DO NOT carry passengers.

DO NOT operate the machine while physically or mentally impaired, feeling tired, ill or under the influence of alcohol or drugs.

Follow the manufacturer's recommendation for wheel weights or counterweights.

DO NOT touch parts which are hot. Allow parts to cool.

Some very dark objects are not detected very well, e.g., plastic, powder coat.

Mower may not detect objects less than 18 inches (45 cm) tall. Check area for small objects prior to mowing.

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. NEVER assume that children will remain where you last saw them.

Do not operate mower in the presence of children or pets.

Keep children out of the operating area and under the watchful care of a responsible adult other than the operator.

Do not carry children, even with the blade(s) shut off. Children could fall off and be seriously injured or interfere with safe machine operation. Children who have been given rides in the past could suddenly appear in the mowing area for another ride and be run over or backed over.

Preparation Before Operating

Inspect unit before each use for missing or damaged decals and shields, correctly operating safety interlock system,

ROPS and deterioration of grass catchers. Replace or repair as needed.

Clear the operating area of all objects which could be thrown by or interfere with operation of the machine.

Keep the area of operation clear of all bystanders, particularly small children. Stop the machine and attachment(s) if anyone enters the area.

DO NOT operate the machine without the entire grass catcher, or other safety devices in place and functioning properly. Check frequently for signs of damage, wear or deterioration and replace as needed.

NEVER tamper with safety devices. Check their proper operation regularly. NEVER do anything to interfere with the intended function of a safety device or to reduce the protection provided by the safety device.

Check parking brake operation frequently. Adjust and service as required.

Wear appropriate personal protective equipment such as safety glasses, hearing protection, and substantial footwear. DO NOT mow barefoot or while wearing sandals.

Operating

Improper use of power equipment can cause serious permanent injury or death to the operator or a bystander. Understand:

- How to operate all controls.
- The functions of all controls.
- How to STOP in an emergency.
- Braking and steering characteristics.
- Turning radius and clearances.

Wireless E-Stop must be carried by operator when ROBOT power is ON. In case of an emergency, press the EMERGENCY STOP BUTTON.

If the operator or the mechanic cannot read the manual, it is the owner's responsibility to explain it to them. Manuals are available at our '[HELP](https://amroperator.com/help)' page <https://amroperator.com/help>. For quick access to the '[HELP](https://amroperator.com/help)' page, scan the QR code below:



Operating location:

Only run the engine in well-ventilated areas. Exhaust gases contain carbon monoxide, an odorless deadly poison.

Avoid holes, ruts, bumps, rocks and other hazards. Uneven terrain could overturn the machine, or cause operator to lose their balance, footing and/or control of the mower.

Avoid slippery surfaces. ALWAYS be sure of your footing.

Operating conditions:

Only operate the machine in daylight or good artificial light.

Lightning can cause severe injury or death. If lightning is seen or thunder is heard in the area, DO NOT operate the machine; seek shelter.

Moving parts:

DO NOT put hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.

Thrown objects:

DO NOT direct discharge material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blade(s) when crossing gravel surfaces. DO NOT mow into roads or across sidewalks.

Adjusting and maintaining mower:

DO NOT leave a running machine unattended. ALWAYS park on level ground, disengage the attachment, set parking brake, stop engine and remove key (if applicable) before leaving the operator's position.

DO NOT mow in reverse unless absolutely necessary. ALWAYS look down and behind before and while backing.

If you strike a foreign object, stop and inspect the machine. Repair, if necessary, before restarting.

ALWAYS check overhead and side clearances carefully before operation. Keep in mind that your mower deck may be wider than your track width.

Slope Specific

Avoiding rollover:

Slopes are a major factor related to accidents. Operation on slopes requires extra caution. If you feel uneasy on a slope DO NOT mow it. Use the parking brake for emergency stops.

DO Not operate on slopes of more than 15°.

Do not mow within 1.2 M (4 feet) of a drop off. Do not mow within 1.2 M (4 feet) of a pond or other waterway. The primary hazard of slope operation is loss of control and/or roll over.

Mow up and down slopes, NEVER across. Exercise caution when changing direction on slopes. Use caution while operating near drop offs.

Avoiding uncontrolled downhill movement:

Avoid mowing wet grass. Wet surfaces can cause a loss of traction and control.

DO NOT operate machine under any condition where traction, steering, or stability is in question. Tires could slide even if the wheels are stopped.

Always keep the machine in gear when going down slopes. Do not coast downhill.

Avoid starting and stopping on slopes. Avoid making sudden changes in speed or direction. Make turns slowly and gradually.

Use extra care while operating machine with a grass catcher or other attachment(s). They can affect the stability of the machine.

Fire And Fuel Specific

Extinguish all cigarettes, cigars, pipes and other sources of ignition.

Use only an approved fuel container.

DO NOT remove fuel cap or add fuel with the engine running or while hot.

DO NOT refuel indoors or in enclosed spaces.

DO NOT store the machine or fuel container, or refuel, where there is an open flame, spark, or pilot light such as on a water heater or other appliance.

If fuel is spilled, DO NOT attempt to start the engine and avoid creating any source of ignition until fuel vapors have dissipated.

To help prevent fires: keep machine free of grass, leaves, or other debris build up; clean up oil or fuel spillage and remove any fuel soaked debris; allow engine to cool before storing.

Towing With Machine

On slopes, the weight of the towed equipment may cause loss of traction and loss of control.

Follow the manufacturer's recommendations of the towed equipment for weight limits and towing on slopes.

NEVER allow children or others in or on towed equipment.

SERVICE

Keep the machine in good working order. Replace worn or damaged parts.

Use caution when servicing blades. Wrap the blade(s) or wear gloves. Replace damaged blades.

Disconnect spark plug wire(s) and the negative battery cable before making any repairs.

Use only attachments recommended by RC Mowers that are appropriate to your use and can be used safely in your application.

The use of non-genuine replacement parts or accessories could adversely affect machine operation and safety.

DO NOT change engine governor setting or overspeed the engine.

ROPS

The ROPS is an integral safety device. Do not remove or alter the ROPS.

Keep a folding ROPS in the raised and locked position and use the seat belt when operating the machine.

Lower a folding ROPS temporarily only when absolutely necessary. Do not wear the seat belt when folded down. There is no rollover protection when a folding ROPS is in the down position.

Frequently inspect the ROPS and the seatbelt for damage. Replace damaged ROPS. Do not repair or alter.

ASSEMBLY

Read and understand the *Safety* section before proceeding.

1. Remove unit from shipping container.
2. Remove wrap and packaging materials from unit.
3. Rotate ROPS into the upright and locked position, replacing any parts removed to do so.
4. Ensure all hardware is tight.
5. Check oil levels.

CONTROLS AND FEATURES

Figures 2, 3, 4, 5 and 6 display the controls and feature's locations.

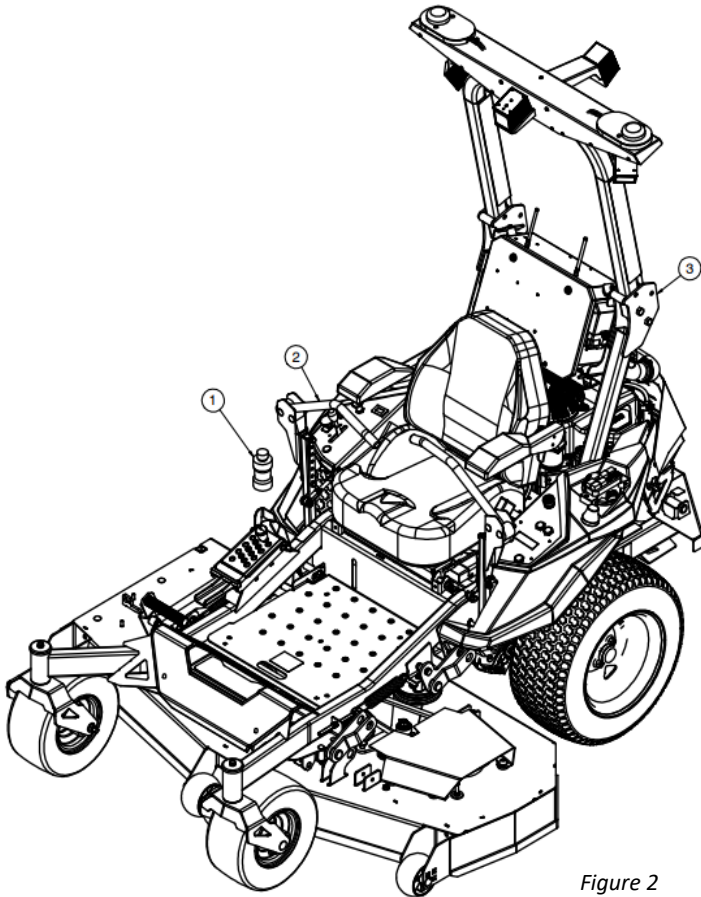


Figure 2

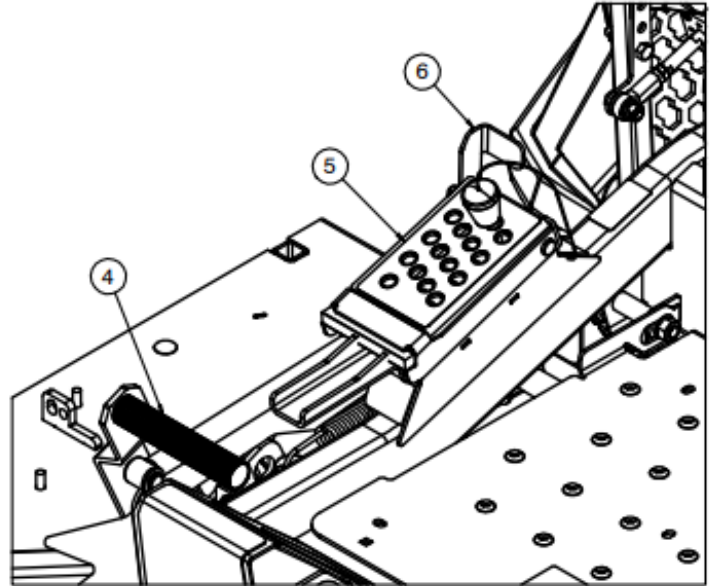


Figure 3

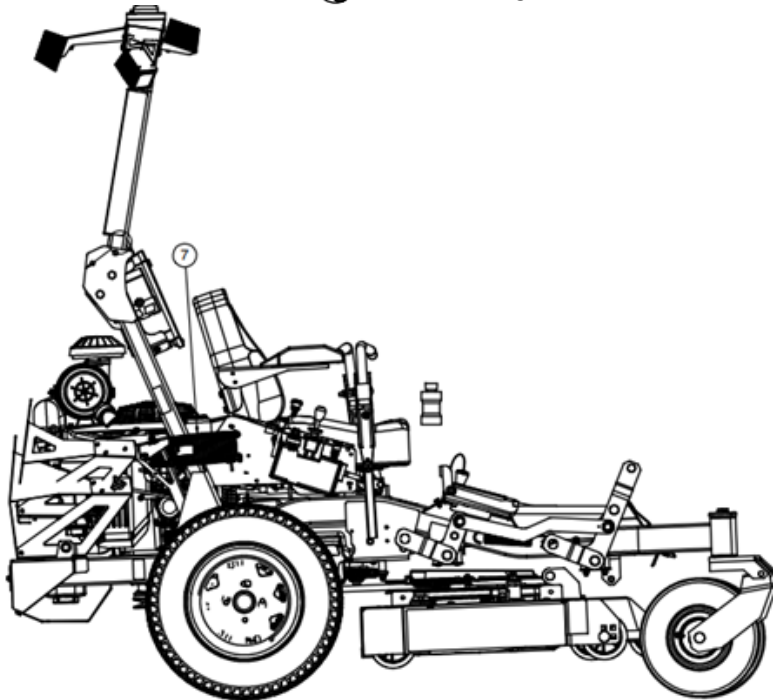


Figure 4

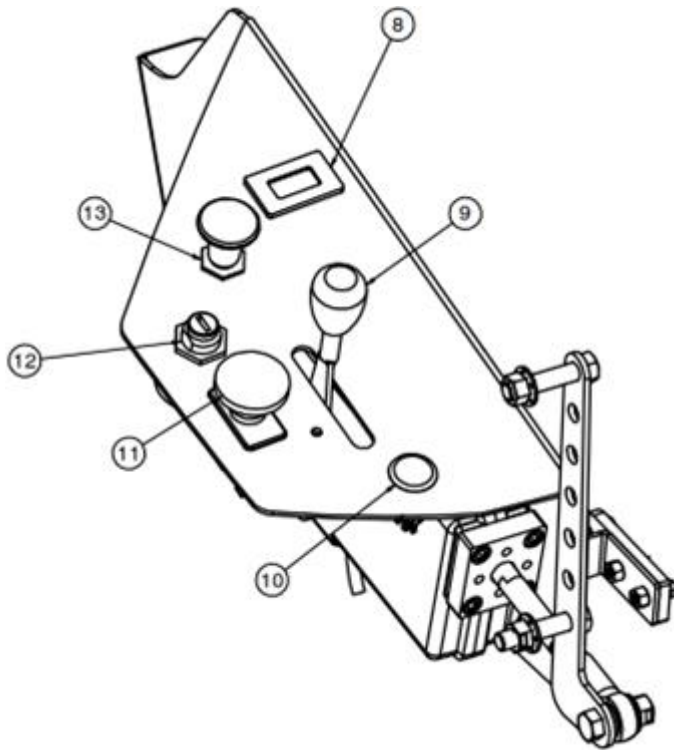


Figure 5

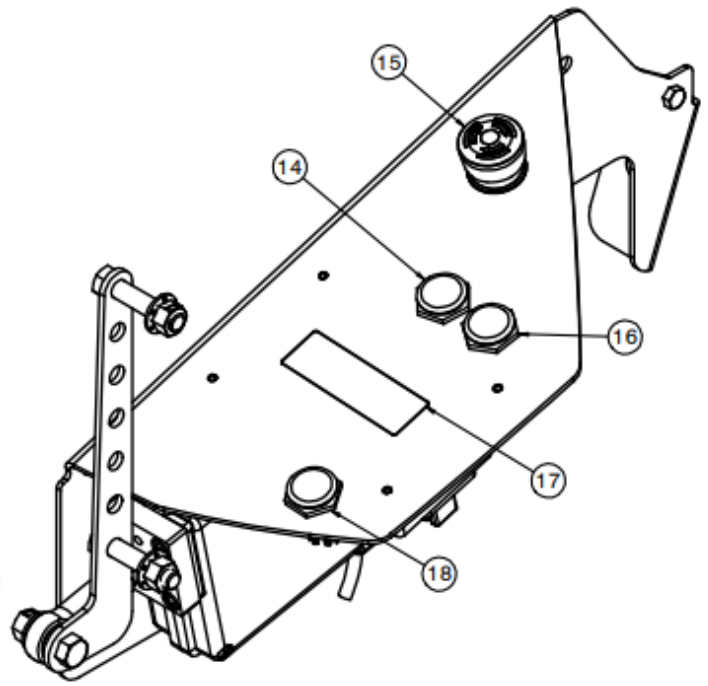


Figure 6

- | | | | |
|---|------------------------------------|----|---------------------------|
| 1 | Wireless E-Stop Button | 10 | Brake Button |
| 2 | Steering Levers | 11 | Power-Take-Off (PTO) Knob |
| 3 | Roll-Over-Protection-System (ROPS) | 12 | Ignition Switch |
| 4 | Deck Lift Pedal | 13 | Choke Control Knob |
| 5 | Height-Of-Cut Adjustment | 14 | Red Button |
| 6 | Transport Lock Release Lever | 15 | Wired E-Stop Button |
| 7 | Battery Tender | 16 | Green Button |
| 8 | Hour Meter | 17 | LCD Display |
| 9 | Throttle Control Lever | 18 | Robot Power Button |

Ignition Switch

Controls power to the engine. The key cannot be removed when in run position. See *Figure 7*.



Figure 7

Throttle Control Lever

Controls engine speed. Push lever forwards to increase engine speed. Pull lever backwards to decrease engine speed. See *Figure 8*.



Figure 8

Transport Lock Release Lever

Releases deck from transport position.

Choke Control Knob

Controls airflow to the engine. Pull knob up to turn on choke and push down to turn choke off. See *Figure 9*.

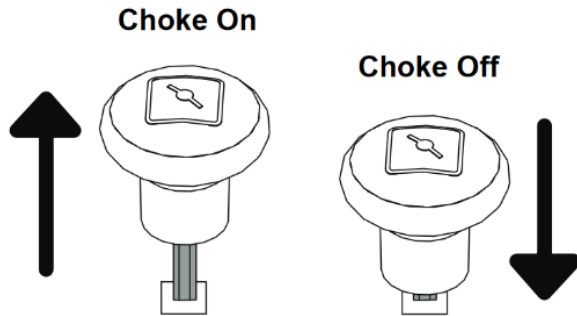


Figure 9

Deck Lift Pedal

Raises mower deck to change height-of-cut setting or release from transport position.

Height-Of-Cut Adjustment

Sets the height of cut. Push on deck lift pedal, place adjustment pin in desired height-of-cut setting, slowly release deck lift pedal.

Wired E-Stop Button

Works as an emergency stop for the machine. The machine will not turn on with the Wired E-Stop Button engaged. Press Wired E-Stop Button down to engage. Twist Wired E-Stop Button to release.

Steering Levers

Control the direction and speed of the mower. To stop mower, return both steering levers to the neutral position.

Brake Button

Controls the parking brake. Push brake button down (will illuminate green) to release parking brake. Push brake button again to set parking brake (green light will turn off).

ROPS

ROPS must be up in robot mode. **To raise rops:** Remove hairpins from lock pins and remove lock pins from hinge plate. Then, raise center bar and secure with lock pins and hairpins. **To lower rops:** Remove hairpins from lock pins and remove lock pins from hinge plate. Then, lower center bar and secure with lock pins and hairpins.

LCD Screen and Action Buttons

Displays status/prompts from the machine that the user can input info using the action buttons.

Safety Interlock System

Monitors the interaction of various unit features for operator safety.

Robot Power Button

Controls the status of the autonomy system. When Robot Power Button is pressed, the autonomy system will turn on. When the Robot Power Button is raised, the autonomy system will turn off. See *Figure 10*.

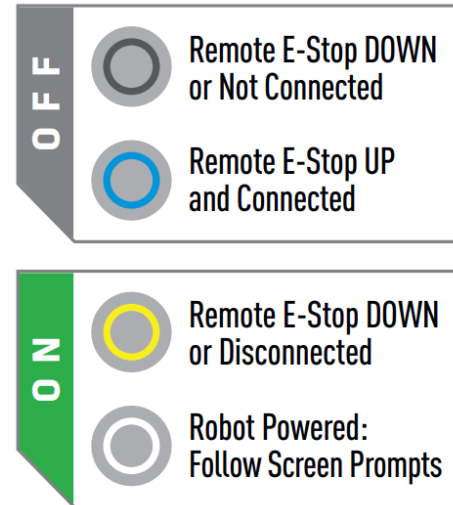


Figure 10

Wireless E-Stop Button

Works as a handheld Emergency Stop while the Robot is working in Robotic mode. Press Wireless E-Stop button down to engage. Twist Wireless E-Stop Button to release.

Wireless E-Stop Button will be solid red with slow blinking green when not connected. Wireless E-Stop Button will be fast blinking green when connected.

Battery Tender

Charges the machine battery. Plug in battery tender to a powered outlet/extension cord to turn on battery tender. See *Figure 11*.

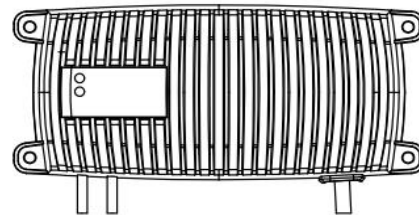


Figure 11

Power-Take-Off (PTO) Knob

Controls power to the mower blades. Push knob down to turn blades off. Pull knob up to turn blades on. MOWER WILL NOT START WITH PTO KNOB UP. See *Figure 12*.



WARNING! Blades will not immediately stop after pushing PTO knob down to off position.

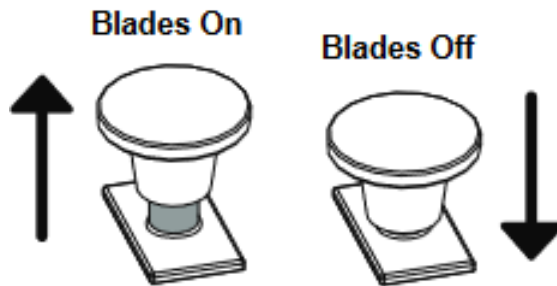


Figure 12

BEFORE OPERATION

Read and understand the *Safety* section before proceeding.

1. Know how to stop in an emergency. See *Emergency Stopping* on page 14.
2. Check fuel level and add fuel if needed.
NOTICE: Use fresh unleaded fuel with an octane rating of at least 87. DO NOT use E85 blended fuels: The engine is not E20/E30/E85 compatible. The maximum ethanol content must not exceed 10%. RC Mowers recommends using a quality fuel stabilizer in all fuel stored for more than 30 days. See *Short-Term Storage* on page 26.
3. Check engine oil level and add oil if needed. Refer to engine manual.
4. Check hydraulic oil level. See *Check Hydraulic System* on page 24. Check air cleaner. Refer to engine manual.
5. Check function of all controls.

SET CUTTING HEIGHT



WARNING! Adjust deck height only when blade switch is OFF, and blades have stopped rotating.

1. With Engine and BLADES off, push deck lift pedal forward until transport lock engages.
2. Insert adjustment pin through desired setting in height-of-cut adjustment system.
3. Move deck lift handle slightly forward, release transport lock and slowly release deck lift pedal until it contacts adjustment pin and stops.

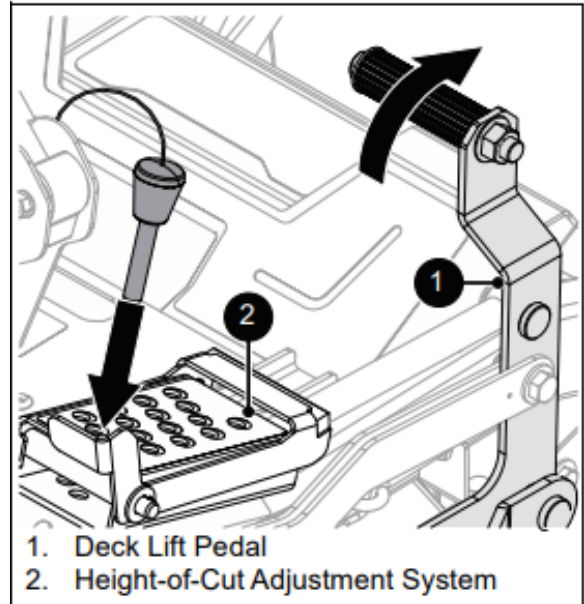


Figure 13

PREREQUISITES FOR AREAS TO BE MOWED

- Operator has detailed familiarity with area to be mowed.
- In all areas to be mowed, check for and remove debris or objects that could damage the mower or be thrown.

When Machine is Operating in Robotic Mode:

Use only as described in this manual.

Always stay 15 feet clear of the mower during operation.

Stay within 500 feet of the mower while maintaining clear line of sight.

Keep E-stop controller on your person to prevent injury in the event of a machine failure.

Pause or turn-off mower before approaching mower through the App or Wireless E-stop, respectively. Never approach an active mower that is moving or could move, as indicated by amber/flashing or pulsing amber lights.

Do not mow areas that have more than a 15-degree slope.

Keep children and unauthorized persons away from machine.

Do not attempt to ride the machine while in Autonomous Mode.

If a machine exhibits unusual behavior, STOP machine, and contact Customer Support.

Do not operate machine with faulty or damaged components.

Operator must maintain awareness of machine environment and behavior.

Position ROPS

IMPORTANT: Inspect ROPS and seatbelt for damage and loose or missing hardware.

Raise Center Bar

1. Remove hairpins from lock pins and remove lock pins from hinge plate.
2. Raise center bar and secure with lock pins and hairpins.



WARNING! Seatbelt **MUST** be worn when operating with center bar raised.

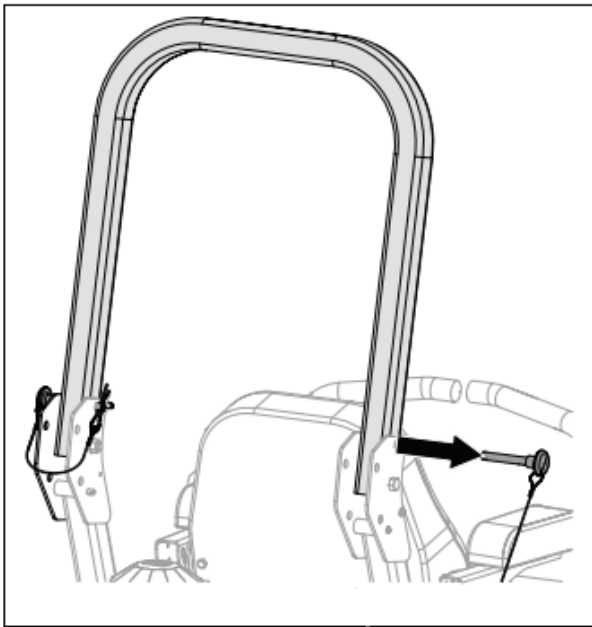


Figure 14

Lower Center Bar



WARNING! Lower the center bar only when needed to drive under an object. There is no rollover protection with the center bar in the lowered position. **DO NOT** wear seatbelt when ROPS is in lowered position.

1. Remove hairpins from lock pins and remove lock pins from hinge plate.
2. Lower center bar and secure with lock pins and hairpins.

IMPORTANT: Return center bar to the raised position when clear of obstacles.

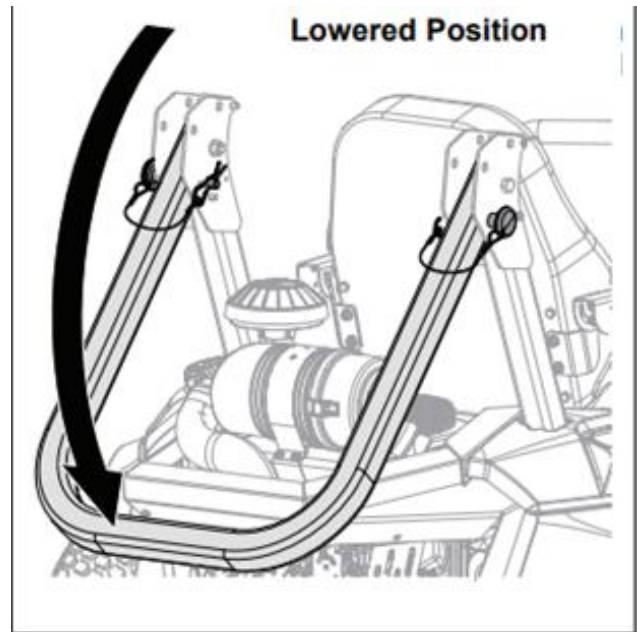


Figure 15

OPERATION

Read and understand the *Safety* section before proceeding.

NOTICE: All references to left, right, front, or rear are given from the perspective of the operator in the seated position on the machine.

WIRELESS E-STOP OPERATION

Wireless E-Stop must be up and connected for mower to operate in robot mode. Push down Wireless E-Stop to shut down machine while operating in robot mode.

EMERGENCY STOPPING

Some situations, such as mowing on wet or muddy ground or striking an obstacle may cause a loss of steering control. If you lose steering control, perform an emergency stop.

AUTONOMOUS MODE:

Push RED Emergency Stop Button on handheld WIRELESS E-STOP controller;

Or Press RED WIRED E-STOP BUTTON on left mower console;

Or turn key to OFF.

MANUAL MODE:

Press RED WIRED E-STOP BUTTON on left mower console;

Or turn key to OFF.

START THE ENGINE

VERIFY:

1. PTO knob is in the OFF position.
2. Parking brake is applied.
3. Steering levers are in neutral position.
4. If the engine is cold, pull choke knob up to ON position. If the engine is warm or hot, turn choke OFF.
5. Throttle is set to low speed.
6. Verify both the WIRED E-STOP BUTTON and WIRELESS E-STOP BUTTON are disengaged.
7. Insert ignition key and turn to ON position.
8. Verify that the 'Robot Power' button is not illuminated yellow.

Note: If 'Robot Power' button is illuminated yellow, turn off 'Robot Power' button or disengage WIRELESS E-STOP BUTTON.

TO START ENGINE:

1. Turn Ignition Key to START position. Release key when engine starts.



Figure 16



Figure 17

IMPORTANT: Do not operate the starter for more than 10 seconds at a time. If the engine does not start, allow a 60-second cool down period between starting attempts.

2. If choke is ON, wait a few seconds after engine starts and then push choke knob down to OFF position.

IMPORTANT: Make sure choke is completely off. Engine will not run smoothly using partial choke.

3. Machine may now be operated as a standard Zero-Turn mower.

FOR BEST MOWING RESULTS

- Cut grass when dry.
- Keep mower blades sharp.
- Keep mower deck properly leveled.
- Do not set height of cut too low. For very tall grass, mow twice.
- Do not travel too fast.
- Mow with the engine set at full throttle.
- Do not cut more than 2.5 cm (1") during any pass.
- Vary cutting pattern with each mowing.
- Do not allow grass or debris to collect inside of mower deck. Clean after each use.

STOP THE ENGINE

1. Ensure PTO is disengaged.
2. Optional: Adjust engine throttle if desired.
3. Set parking brake.
4. Turn key to OFF and remove.

AUTONOMY CONTROL UNIT (ACU) INITIALIZATION

NOTICE: To prevent battery drain, ensure battery tender is plugged in or engine is running if ACU is going to be powered on for more than 15 minutes.

1. Turn key to ON position.
2. Turn on power by pressing the 'ROBOT POWER' button to the detent position. It will illuminate yellow or white.

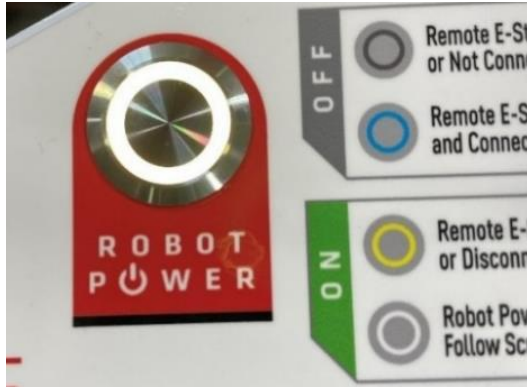


Figure 18

3. After booting up, LCD display will show the PIN number needed to connect to the AMR Mobile App.
4. See *Connecting A Smart Phone To The Machine* on page 16.

Note: You will not be able to connect to the machine until it is successfully connected to the network. The top right-hand corner of LCD display should not say NC.

When ACU is on, machine status can be determined by the lights above the roll bars. See *Figure 19*.

STATUS LIGHTS QUICK GUIDE

| | |
|----------------|---|
| SOLID WHITE | NOT LOGGED IN |
| PULSING WHITE | COMPUTER TURNING ON/OFF |
| FLASHING WHITE | UPDATING |
| SOLID GREEN | SYSTEM READY |
| PULSING GREEN | READY TO MOW/LOCAL PAUSE |
| SOLID BLUE | FAULT/ERROR WHEN NOT MOWING/ NOT PAUSED |
| SOLID AMBER | PAUSED (ROBOTIC) |
| PULSING AMBER | STOPPED FOR OBJECT (ROBOTIC) |
| STROBING AMBER | OPERATING (ROBOTIC) |
| SOLID RED | ERROR WHILE MOWING (AUTO-RESUMES WHEN CLEAR) |
| FLASHING RED | FAULT WHILE MOWING (NO AUTO-RESUME) |
| PULSING RED | E-STOP |

Figure 19

CONNECTING A SMART PHONE TO THE MACHINE

- Open the Mobile App and press “GET STARTED” button to navigate to the “Mow” page (*Figure 20*). If after pressing “GET STARTED” button, the “Connected Machines” page is not showing, press Connect at the top right of the screen.

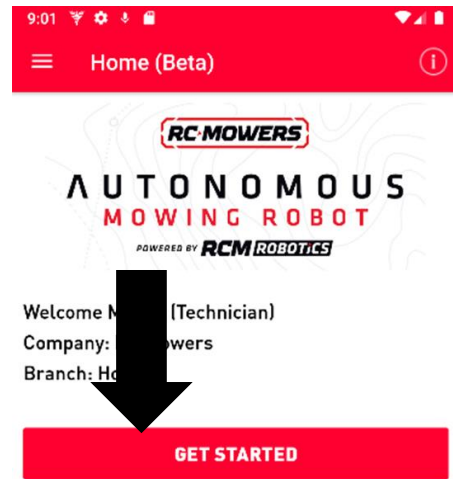


Figure 20

- Press the Connect button located at the bottom of the screen and a dialog should appear asking for a Pin number (*Figure 21*).

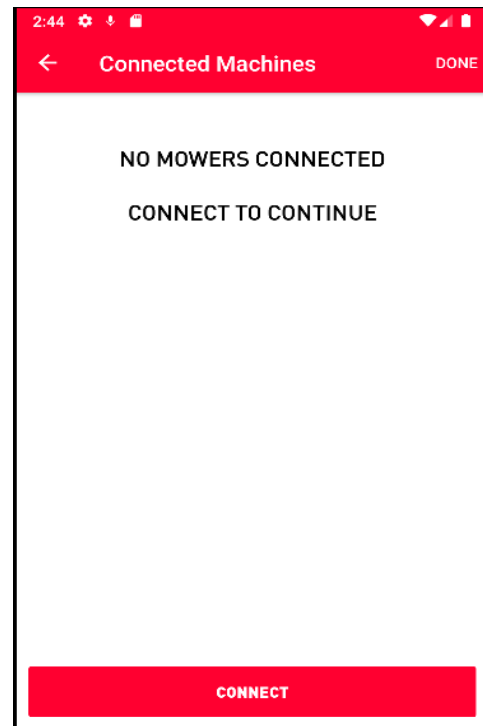


Figure 21

- If no one is currently logged in to the machine, the LCD display will show two numbers: the Pin number and the Machine Serial Number. Look for the Pin number on the top left of the display and enter this number into the app (Figure 22).

NOTE: If the Pin number is not showing, but the machine is booted up, another operator is connected to the machine. You can't connect to the machine until they disconnect, or the machine is restarted.

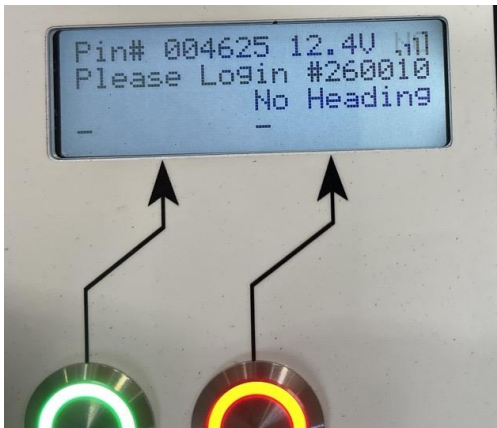


Figure 22

- Hit OK on the dialog and the machine should be added to the list in the Mobile App (Figure 23).

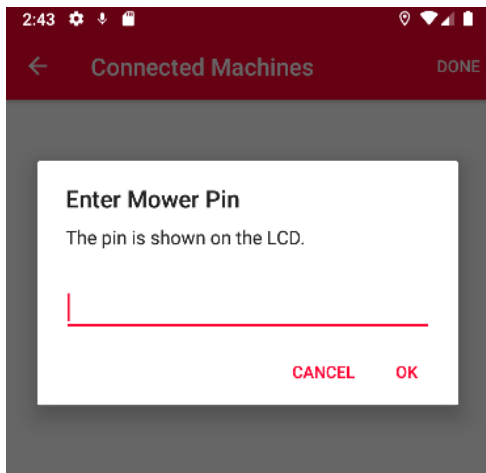


Figure 23

CREATE A SIMPLE MOW™ PLAN

The following procedure creates Simple Mow plans by driving the perimeter of an area to be mowed.

To begin a Simple Mow plan:

1. Connect to the mower with a smartphone. See *Connecting A Smart Phone To The Machine* on page 16.

2. The operator can sit on the machine. The LCD display will ask "Plan?" (Figure 24).

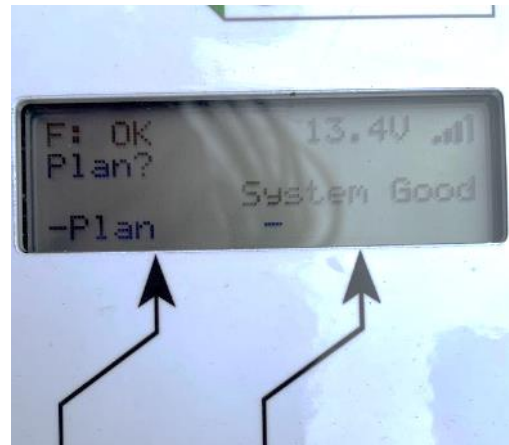


Figure 24

3. Press the green button. The LCD display now says "Planning!" (Figure 25).
4. Drive the perimeter of the desired mow area. Drive back to the beginning position. If the beginning point is missed, the machine will close the perimeter automatically.

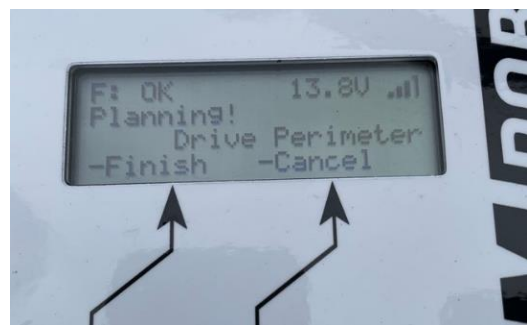


Figure 25

NOTE: Leaving a large gap between start and finish may produce undesired autocompleted edges (Figure 26).

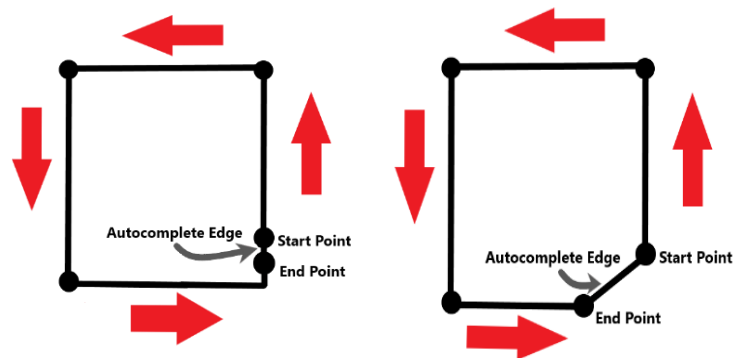


Figure 26

- When the operator has reached the end of the perimeter, press the green button to finish the plan.
- LCD screen will ask: 'Record Keepout?' (Figure 27).



Figure 27

- To Record Keep-Out zones press the green button. Follow the steps on *Recording "Keep-Out" Zones [Optional]* on page 18, otherwise press the red button.
- Afterwards, LCD display will ask 'Save Plan?' (Figure 28).

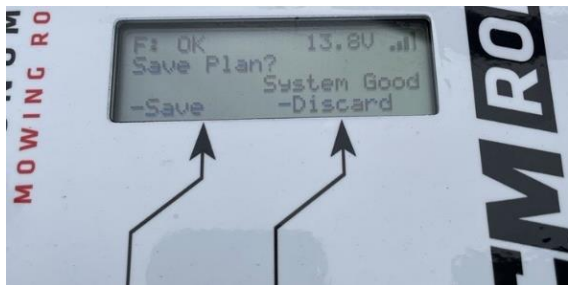


Figure 28

- Press the green button to save the plan.
- Plan is now loaded on the machine. See *Mow Plan* to start mowing.

NOTE: If the operator fails to throttle to 100% before activating the PTO, poor performance or damage to the machine may occur.

RECORDING "KEEP-OUT" ZONES [OPTIONAL]

NOTE: Before Recording Keep-Out zones, follow instructions on *Connecting A Smart Phone To The Machine* on page 16 and *Create A Simple Mow™ Plan* on page 17 .

- After pressing the green button after LCD display shows "Record Keepout?", drive to the beginning of the perimeter of the exclusion zone.
- Once at the point, LCD display will show "Start Recording?", press the green button and mow the zone perimeter (Figure 29).

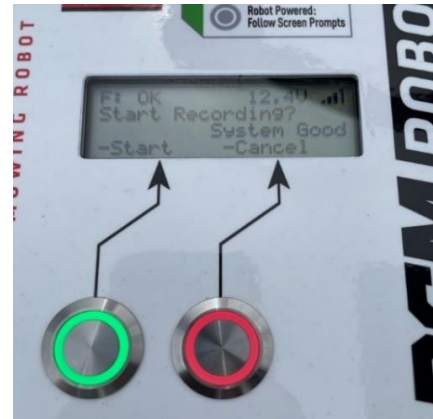


Figure 29

- Once finished, press the green button to tell the mower it's done. The LCD display will show "Record Another?" (Figure 30). If you would like to record another Keep-Out, press the green button and follow steps 1-3, otherwise press the red button.



Figure 30

- After recording all the desired Keep-Out Zones, follow steps 8-10 on *Create A Simple Mow™ Plan* on page 17.

MOW PLAN

- Make sure engine is running.
- Load a plan from AMR Mobile App or create a Simple Mow Plan. See *Create A Simple Mow™ Plan* on page 17.

3. Throttle down until Lidar booting is no longer showing on the LCD display/ reached 100%.
4. Make sure the throttle is at maximum.
5. Make sure brake switch is not illuminated.
6. Get out of the seat. Press the green button to begin robotic mowing (Figure 31).



Figure 31

7. LCD display will start a 10 second countdown. Step away from the machine and after 10 seconds the machine will begin moving robotically.

To learn more about Mobile App features and how to best utilize these features, go to <https://amroperator.com/Resources>. For quick access, please scan the QR code below:



MAINTENANCE

Read and understand the *Safety* section before proceeding.



WARNING! To prevent the engine from unintended starting, remove the spark caps from the spark plugs before performing any service procedure.

Proper maintenance can prolong the life of unit. The *Maintenance Schedule* on page 21 shows the recommended service schedule.

Maintenance will decrease the machine downtime and prevent any major and expensive repairs. This section covers suggested maintenance procedures that should be performed on a regular basis.

The service intervals should be considered the minimum recommended maintenance. More frequent service may be required due to working conditions (heavy loads, high ambient temperatures, dusty conditions, or airborne debris). Never operate the machine when any warning lights, or signals are on.

Contact an authorized engine manufacturer's service center for engine service.

EMISSION CONTROL SYSTEM

This equipment and/or its engine may include exhaust and evaporative emissions control system components required to meet U.S. Environmental Protection Agency (EPA) and/or California Air Resources Board (CARB) regulations. Tampering with emission controls and components by unauthorized personnel may result in severe fines or penalties. Emission controls and components can only be adjusted by RC Mowers or an authorized engine manufacturer's service center. Contact RC Mowers concerning emission controls and component questions.

WHEN SERVICING MACHINE:

- Machine should be turned off with brake engaged.
- All work must be done with sufficient lighting and visibility.
- Keep work area well ventilated.
- Avoid moving parts. Do not wear loose clothing, jewelry and secure long hair.
- Block machine tires before jacking machine up.
- Jack machine up at designated locations only. Support machine with jackstands.
- Use a hoist or jack that will support the weight of the machine.
- Follow *Move Unit Manually* section on page 21 when towing/pushing machine.

- Do not pressure wash machine. Electrical malfunction may occur.
- Do not modify the machine from its original design.
- Use RC Mower supplied or approved replacement parts.

CLEANING

The machine can be cleaned with a water hose from a faucet, mild soap, and a sponge. Do not direct high pressure water from a pressure washer into engine, electronics, actuators, and other sealed mechanical components as damage may occur.

Remove all debris from all cooling fins including engine, oil coolers, transmissions, and fans.

Salt will accelerate corrosion of metal parts on the machine. Immediately wash machine with plentiful fresh water after contact with any salt. Lubricate all normal components and any unprotected metal surfaces after washing (such as drive bearings and transmission linkages). Salt exposure may occur from transporting on salted roadways, operating near coastal areas, or operating in standing saltwater or brackish water.

CHARGING WIRELESS EMERGENCY STOP

Plug Wireless Emergency Stop in with provided magnetic charging cable. Wireless Emergency Stop will illuminate solid red when charging and solid green when fully charged.

RE-PAIR WIRELESS E-STOP

1. If the machine is ON, turn the machine OFF.
NOTE: Make sure Wireless E-Stop is OFF and there are no lights in the Wireless E-Stop.
2. Turn ON the machine.
3. Press down the Wireless E-Stop Button.
4. Go to the E-Stop receiver on top of the ROPS, where a yellow button is located.
5. Press and hold the yellow button for 10 seconds.
6. In the E-Stop receiver, both red and green lights should start blinking in unison.
7. After both lights start blinking, turn ON the Wireless E-Stop.
8. Twist Wireless E-Stop Button to release it. Both green and red lights will start blinking until red light turns solid.
9. Wait 1 minute and the Wireless E-Stop will exit pairing mode and should start working. There should be no red light anymore. In both Wireless E-Stop and E-Stop receiver the green light will start blinking.
10. **Optional:** Instead of Step 9, when Wireless E-Stop is paired turn the ignition switch in the machine off and on again.

MAINTENANCE SCHEDULE

Your RC Mowers dealer can provide service and adjustments to keep your unit operating at peak efficiency. Contact an authorized engine manufacturer's service center for engine service.

| Service Performed | Each Use | Every 25 hrs. | Every 50 hrs. | Every 100 hrs. | Every 400 hrs. |
|---|----------|---------------|---------------|----------------|----------------|
| Clean Engine of Any Grass or Debris | x | | | | |
| Clean Mower Deck of Any Grass or Debris | x | | | | |
| Check Safety Interlock System | x | | | | |
| Check Hydraulic System | x | | | | |
| Check Parking Brake | x | | | | |
| Check Wireless Emergency Stop | x | | | | |
| Check Engine Oil* | x | | | | |
| Change Engine Oil* | | | | | |
| Check Tire Pressure | x | | | | |
| Check Mower Blades | x | | | | |
| Clean Lidar Lens | x | | | | |
| Check Battery | | x | | | |
| Clean Battery | | x | | | |
| Check Air Filter* | | | x | | |
| Check Fasteners | | | x | | |
| Lubricate Unit | | | x | | |
| Clean Engine Cooling System* | | | | x | |
| Check Belts | | | | x | |
| Change Hydraulic Oil and Filter** | | | | | x |
| * Refer to engine manual for instructions **Change after first 75 hours of operation | | | | | |

SERVICE PARTS

See your RC MOWERS dealer to purchase service parts for your unit.

SERVICE POSITION

Before starting any of the following maintenance procedures:

1. Park unit on a flat, level surface.
2. Stop engine, remove key and wait for all moving parts to stop and for hot parts to cool.
3. Engage parking brake.
4. Chock wheels. Strap and clamp unit onto lift, if used.
5. Place steering levers in neutral position and rotate outward.
6. Rotate seat forward.

MOVE UNIT MANUALLY

Bypass the transaxles and parking brake to move the unit with the engine off.

IMPORTANT: There is one transaxle bypass lever on each side of unit. Ensure that both levers are fully in front or rear position.

1. Stop engine, remove key and wait for moving parts to stop and for hot parts to cool.
2. Pull both transaxle bypass levers out into bypass position. See *Figure 32*.
3. Remove brake actuator front pin and release brake.
4. If on an incline, make sure any towing equipment and people are uphill to avoid any potential injury or collisions.
5. Move unit to desired location.
6. Reconnect brake actuator front pin and verify proper brake operation.
7. Return transaxle bypass levers to operating position. See *Figure 33*.

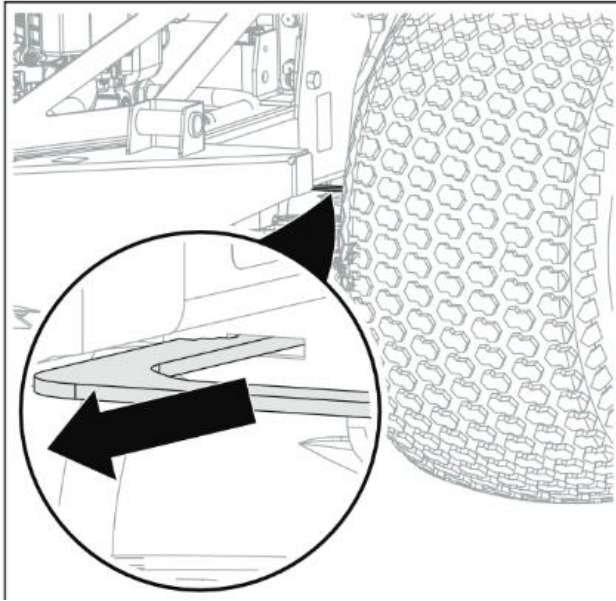


Figure 32

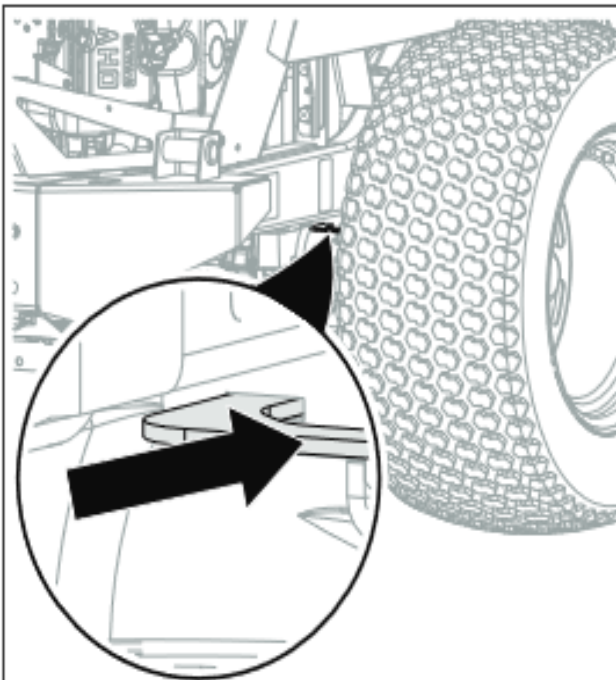


Figure 33

TRANSPORT UNIT

1. With the engine off, push deck lift pedal completely forward to engage transport lock.
2. Start engine and move unit to transport vehicle.
3. Stop engine and remove key from ignition.
4. Secure mower frame to transport vehicle.

NOTICE: NEVER secure unit to vehicle from rods or linkages that could be damaged.

RELEASE TRANSPORT LOCK

1. With engine off, push deck lift pedal forward and lift transport lock release lever.
2. Slowly return mower lift handle to resting position.

ADJUST SEAT

See Figure 34.

1. Pull seat adjustment lever up to unlock seat.
2. Move seat to desired position.
3. Release seat adjustment lever to lock seat in place.

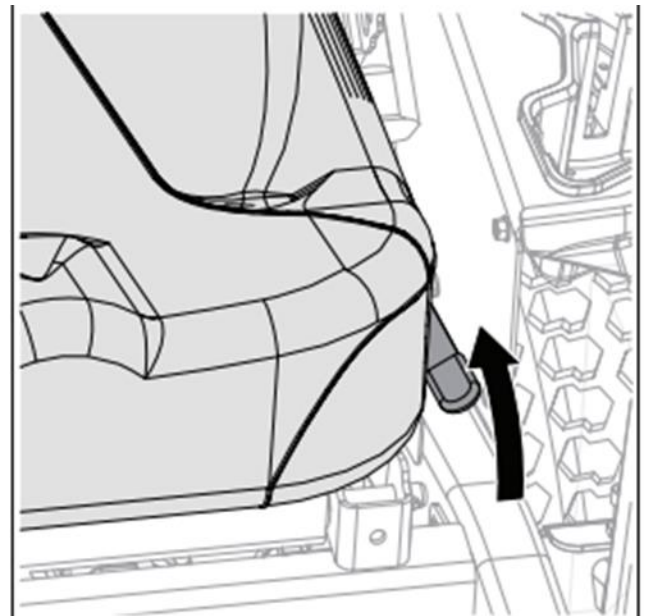


Figure 34

LUBRICATE UNIT

1. Apply oil to all pivot points and pin connections.

LUBRICATE SEAT

1. Place unit in service position. See *Service Position* on page 21.
2. Apply grease to seat tracks through slots under seat plate.
3. Return seat to operating position and slide seat back and forth to spread grease along tracks (Figure 35).

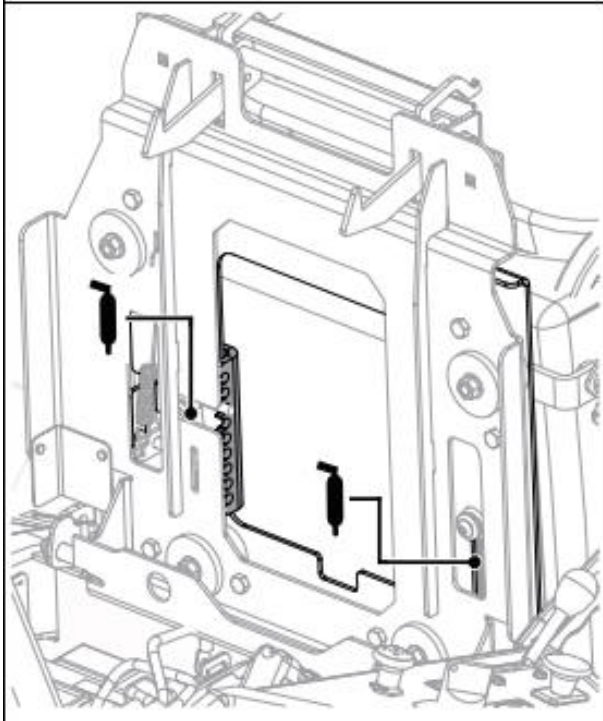


Figure 35

CHECK MOWER BLADES

Check blades for wear and damage. Replace or sharpen as needed.

CAUTION: AVOID INJURY.

Use sturdy gloves or padding to protect hands when working with mower blades. Rotation of one blade rotates the other blades.

CAUTION: Unbalanced blades cause excessive vibration and eventual damage to unit. Balance blades before reinstalling on unit. NEVER weld or straighten blades.

CHECK MOWER BELTS

Check belts for wear and replace as needed.

CAUTION: Keep body parts away from idler when releasing idler spring tension.

CHECK TIRE PRESSURE

1. Place unit in service position. See *Service Position* on page 21.
2. Check tire pressures. If needed, adjust to recommended pressures. See *Tire Specifications* below.

IMPORTANT: DO NOT exceed maximum tire pressure listed on tire sidewall.



WARNING! Explosive separation of tire and rim parts is possible.

- DO NOT inflate tires above the recommended pressure.
- DO NOT inflate tires with a compressor; use a hand pump.
- DO NOT stand in front of tire assembly when inflating. Use a clip-on chuck and extension hose long enough to allow you to stand to one side.

TIRE SPECIFICATIONS

Tires Front Tire Size – in 13 x 6.5-6

Rear Tire Size – in 22 x 10-12 22 x 10.5-12 22 x 11-12

Recommended Front Tire Pressure – kPa (psi) 137.9 – 172.4 (20 – 25)

Recommended Rear Tire Pressure – kPa (psi) 82.7 – 103.4 (12 – 15)

CHECK BATTERY



WARNING! Battery posts, terminals and related accessories contain lead. Wash hands after handling.

CLEAN BATTERY

CAUTION: AVOID DAMAGE. DO NOT allow tools to contact metal surfaces when removing positive battery cable.

1. Disconnect battery cables, negative cable first.
2. Clean terminals and battery cable ends with a wire brush.
3. Coat terminals with dielectric grease or petroleum jelly.
4. Reinstall battery cables, positive first.

NOTE: Always plug in battery tender when computer is on for more than 15 minutes, while engine is off.

LIDAR LENS CLEANING

In normal conditions, the only maintenance required for the LiDAR sensor is to clean the optical window glass. Dust and stains on the optical window can negatively affect the performance of the LiDAR sensor. Make sure to regularly clean the optical window to prevent this from happening.

First, check the surface of the optical window to see if cleaning is necessary. If it is necessary to clean, follow the steps below:

1. Use compressed or canned air: DO NOT wipe a dusty optical window, as it will only cause more damage. Dust the optical window with compressed or canned air before wiping the optical window. If the optical window has no visible stains afterward, it is not necessary to wipe it also.
2. Wipe the stains: DO NOT wipe using a dry lens tissue, as it will scratch the surface of the optical window. Use the lens tissue provided with isopropyl alcohol.

Wipe slowly to remove the dirt instead of redistributing it on the surface of the optical window.

If the optical window is still dirty, a mild soap solution can be used to gently wash the window. Repeat Step 2 to remove any remaining soap residue.

CHECK FASTENERS

Check for loose or missing hardware.

CHECK PARKING BRAKE

1. Place unit in service position.
2. Bypass transaxles. See *Move Unit Manually* on page 21.
3. Push unit forward.
 - If unit does not move forward, no further action is needed.
 - If unit easily moves forward, adjust the brake lever. Refer to your unit's Service Manual.

CHECK ENGINE OIL

NOTICE: Engine oil level must be maintained at correct level or engine damage may occur. Refer to engine manual.

CHECK SAFETY INTERLOCK SYSTEM

Check function of the Safety Interlock System by performing the tests below. Contact your RC Mowers dealer for repair if any of the tests fail.

| Test | Steering Levers | PTO | Parking Brake | Result | | |
|--|-----------------|---------------------------|---------------|----------------|------------------------|--|
| Starting Interlock | | | | | | |
| 1 | Neutral | Off | On | Engine starts. | | |
| 2 | | Forward, Neutral, Reverse | On | On or Off | Engine does not start. | |
| 3 | | Forward, Neutral, Reverse | On or Off | Off | Engine does not start. | |
| Operating Interlock (Engine On) | | | | | | |
| 4* | | Forward, Neutral, Reverse | On | On or Off | Engine shuts off. | |
| 5* | | Forward, Neutral, Reverse | On or Off | Off | Engine shuts off. | |
| * When operator lifts off seat. | | | | | | |

CHECK HYDRAULIC SYSTEM

Check Hydraulic Oil Level

1. Place unit in service position.
2. Check oil level in expansion tanks. Oil should reach the cold fill indicator mark (*Figure 36*).

IMPORTANT: Engine should be cold when checking initial oil level.

3. Operate the engine for 1 minute and recheck oil levels.
4. Add hydraulic oil, if needed.
 - a. Remove expansion tank caps.
 - b. Fill expansion tanks with 15W-50 Full-Synthetic Hydraulic Fluid until oil reaches the cold fill indicator mark. See *Figure 36*.
 - c. Reinstall expansion tank caps.

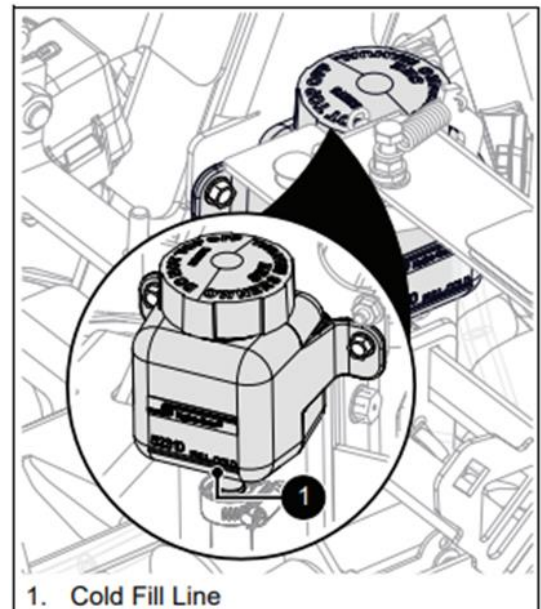


Figure 36

Change Hydraulic Oil and Filter

1. Operate unit for a few minutes to warm hydraulic oil.
2. Stop engine, remove key and wait for all moving parts to stop and for hot parts to cool.
3. Position container under oil filter to catch used oil (*Figure 37*).
4. Remove filter guard and oil filter from transaxle.
5. Remove the vent / fill plug from the fill port and allow transaxle to drain completely.
6. Wipe filter-mounting surface clean.
7. Lubricate rubber gasket on new oil filter with clean hydraulic oil.
8. Spin filter onto filter housing until it makes contact, and then turn filter 3/4 turn to tighten.
9. Reinstall filter guard and torque to 7.3 N•m (65 lb.-in). DO NOT overtighten.
10. Add 15W-50 Full-Synthetic Hydraulic Fluid until oil appears at the bottom of the fill port (1892.7 mL (64 fl. ounces) per transaxle).
11. Reinstall the vent / fill plug and torque to 20.3 N•m (180 lb.-in).
12. Add hydraulic oil to expansion tank until oil reaches cold fill indicator mark.
13. Repeat steps 3 – 12 for another transaxle.
14. Purge hydraulic system.

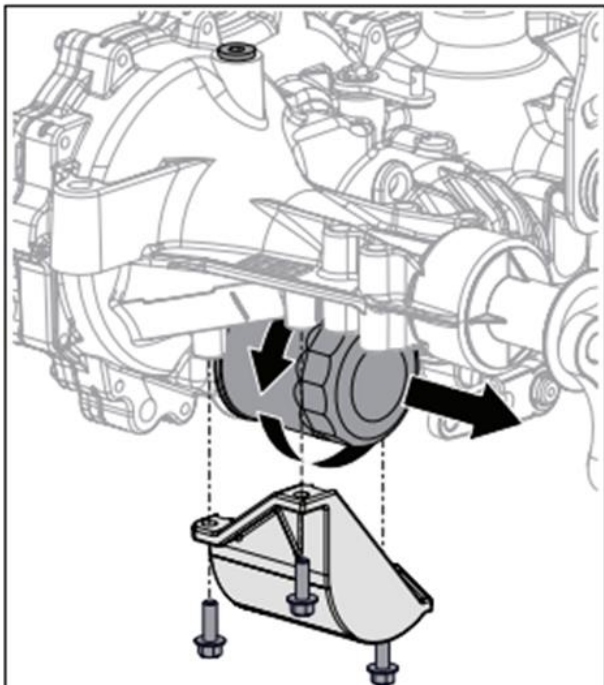


Figure 37

Purge Hydraulic System



WARNING! This adjustment requires operating the engine. Stay clear of moving parts and hot surfaces. Be sure unit is securely supported before starting engine. When engine is running, stand to the side of the mower – never directly in front or behind.

1. Purge air from hydraulic system after draining oil or changing the filter.
2. Park unit facing a wall or chock wheels.
3. Release parking brake.
4. Support unit so drive wheels are off the ground.
5. Bypass transaxles. See *Move Unit Manually* on page 21.
6. Start the engine and slowly move steering levers forward and backward 5 or 6 times.
7. Return transaxle bypass levers to operating position. See *Move Unit Manually* on page 21.
8. Slowly move steering levers forward and backward 5 or 6 times.
9. Stop engine, lower unit to ground and check oil level. Add oil if needed.
10. Repeat steps 1 – 8 until transaxles operate smoothly in forward and reverse at normal speed without excessive noise.

ELECTRICAL SERVICE

Replace Fuse

IMPORTANT: To avoid damaging the circuit, replace fuses with fuses of the same amperage rating. Determine the cause of electrical failure and repair before replacing failed electrical components.

1. Place unit in service position. See *Service Position* on page 21.
2. Remove fuse box cover.
3. Remove defective fuse.
4. Determine cause of fuse failure and repair condition.
5. Install new fuse.
6. Replace fuse box cover. Ensure cover snaps tightly in position.

Replace Relay

NOTICE: Relays are interchangeable. Use only quality replacement parts.

1. Place unit in service position. See *Service Position* on page 21.
2. Remove fuse box cover.
3. Remove defective relay.
4. Determine cause of relay failure and repair condition. Install new relay.
5. Replace fuse box cover. Ensure cover snaps tightly in position.

STORAGE

SHORT-TERM STORAGE

NOTICE: NEVER wash the unit with high-pressure water or store outdoors for extended periods of time.

1. Allow the unit to cool and clean with mild soap and water.
2. Tighten all hardware to correct specifications.
3. Inspect unit for visible signs of wear or damage. Repair as needed.
4. Prepare fuel system for storage.

NOTICE: Gasoline left in the fuel system without a stabilizer, even for short periods of time, deteriorates and leaves gummy deposits in the system that may cause damage. For the best results, add stabilizer to all fuel containers whenever purchasing fuel. Add the stabilizer to the container before adding fuel.

- a. Add fuel stabilizer according to manufacturer's instructions to the fuel tank and any fuel containers with remaining fuel.
- b. Operate engine outdoors for at least 5 minutes to allow stabilizer to reach the carburetor.
- c. Close fuel valve and allow engine to stop on its own from lack of fuel.
- d. Turn key OFF and remove it from the ignition. Cover key slot with rubber boot to prevent water intrusion into ignition.
- e. Store unit in a cool, dry, protected area. Do not store unit outdoors.

NOTE: Always plug in battery tender when computer is on for more than 15 minutes, while engine is off.

LONG-TERM STORAGE

1. Perform short-term storage procedures.
2. Lubricate as directed in *Maintenance Schedule* on page 21.
3. Apply oil to all pivot points and pin connections.
4. The pillow block bearings require approximately 2 grams of grease at each interval.
5. Touch-up all scratched painted surfaces.
6. Store battery in a cool, dry, protected area.
7. Store unit in a cool, dry, protected area. Do not store unit outdoors.

START-OF-SEASON PREPARATION

Before adding fuel for the first time after long-term storage, add fresh, stabilizer-treated fuel to fuel tank and any fuel containers with remaining fuel. Charge and install the battery.

ACCESSORIES

Contact your Dealer or RC Mowers for a complete list of compatible accessories and attachments for your unit.
920-634-2227 RCMowersUSA.com

SERVICE RECORD

| DATE | SERVICE | NOTES |
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SPECIFICATIONS

| | |
|-------------------------------------|--|
| Model Number | 281330 |
| Description | A-Series 60 inch AMR |
| Engine | Kawasaki FX730V |
| Displacement -cm ³ | 726cc |
| Maximum RPM – No Load | 3600 +100/-50 |
| Oil Capacity | Refer to engine manual |
| Liquid or Air Cooled | Air |
| Electrical | |
| Starter | Electric |
| Battery | 12-Volt 300 CCA (U1 Replaceable) |
| PTO (Power Take-off) | Electric PTO Clutch / Brake |
| Fuel | |
| Tank Capacity – gal (liter) | 5 (18.9) |
| Type | 87 octane or higher (<10% ethanol) |
| Transmission | |
| Type | Hydrostatic Drive – Hydro-Gear ZT3200 |
| Oil | Use 20W-50 or 15W-50 synthetic motor oil or equivalent |
| Hydraulic Oil Filter | Yes |
| Drive Speed | |
| Forward Maximum – mph (kph) | 8.5 (13.7) |
| Reverse Maximum – mph (kph) | 4 (6.5) |
| Turning Radius | Zero |
| Brakes | Automatic Parking Brake |
| Mower Deck | |
| Cutting Height – in (cm) | 1.5 – 5.0 (3.8 – 12.7) |
| Cutting Height Increments – in (cm) | 0.25 (0.63) |
| Cutting Width – in (cm) | 60 (152.4) |
| Deck Lift | Mechanical Pin Lock |
| Size and Weight | |
| Length – in (cm) | 79 (200.7) |
| Width – in (cm) | 63.7 (161.8) |
| Height (ROPS up) – in (cm) | 76.9 (195.2) |
| Height (ROPS down) – in (cm) | 53.2 (135.1) |
| Weight – lb (kg) | 1052 (477) |

LIMITED WARRANTY

RC Mowers warrants to the original purchaser of new products on or after 5/1/2023 that the products will be free from defects in material and workmanship for the time period noted in the chart below. If any product is rented or leased, then the duration of these warranties shall be 90 days after the date of purchase.

An authorized RC Mowers dealer will repair any defect in material or workmanship, and repair or replace any defective part, subject to the conditions, limitations and exclusions set forth herein. Such repair or replacement will be free of charge (labor and parts) to the original purchaser; except as noted below. Pick-up and delivery are at the owner's expense.

This A-series Autonomous Mowers is warranted for 2 years or 400 hours, whichever comes first. Warranty terms are total time periods covered. If any product is rented or leased, there are no extensions to the 90-day warranty.

EXCLUSIONS AND LIMITATIONS

Warranty Term Exclusions

Air filters, brake arms, brake linings, brake shoes, brushes, cutters, fuel filters, headlights, knives, light bulbs, lubricants, mower blades, oil, oil filters, spark plugs, and shear bolts. Components are not covered under warranty.

Warranty Term Limitations

Cloth, plastic and rubber components, mufflers, tires, tracks, belts and cables: 6-month commercial warranty. Components are covered for manufacturer's defect only, not wear. Batteries are warranted for 1 year, prorated, not to exceed \$50.00 USD.

Exclusions – Items Not Covered by This Warranty

Parts that are not genuine service parts are not covered by this warranty and may void the warranty if the parts result in premature wear or damage to the product.

Damages resulting from the installation or use of any part, accessory, or attachment which is not approved by RC Mowers for use with product(s) identified herein are not covered by this warranty.

Any misuse, alteration, improper assembly, improper adjustment, neglect, or accident which requires repair is not covered by this warranty.

Repairs or adjustments required due to failure to use fresh fuel or failure to properly prepare the unit for periods of non-use.

Use of gasoline blends exceeding 10% ethanol voids any and all warranties.

Products are designed to the specifications in the area that the product was originally distributed. Different areas may have significantly different legal and design requirements. This warranty is limited to the requirements in the area in which the unit was originally distributed. RC Mowers does not warrant this product to the requirements of any other area. Warranty service is limited to service within the area originally distributed.

In countries other than the United States and Canada, contact the RC Mowers dealer for warranty policies that govern within your country. Rights may vary from country to country and within any one country.

Evaporative Emissions Control Warranty Exception

As required by the California Air Resources Board (CARB) and the US Environmental Protection Agency (EPA) the evaporative emissions control system is warranted to the ultimate purchaser, and any subsequent owner, for two years. The CARB and EPA evaporative emissions control system warranty is described in a separate evaporative emission control warranty statement.

To obtain warranty service, the original purchaser must:

Ensure that the maintenance and adjustments explained in the Operator's Manual are routinely completed.

Promptly notify RC Mowers dealer or service representative of the need for warranty service.

Transport the product to and from the place of warranty service at owner's expense.

Have the warranty service performed by an authorized RC Mowers service representative.

To find an authorized dealer, visit RCMOWERSUSA.COM or contact us by email - Support@rcmowersusa.com or phone at 920-634-2227.

Kawasaki engines are covered by the engine manufacturer's warranty. Refer to the engine manufacturer's warranty statements.

DISCLAIMER

RC Mowers may from time to time change the design of its products. Nothing contained in this warranty shall be construed as obligating the RC Mowers to incorporate such design changes into previously manufactured products, nor shall such changes be construed as an admission that previous designs were defective. Limitation of Remedy and Damages RC Mowers liability under this warranty, and under any implied warranty that may exist, is limited to repair of any defect in workmanship, and repair or replacement of any defective part. RC Mowers shall not be liable for incidental, special, or consequential damages (including lost profits). Some states do not allow the exclusion of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

DISCLAIMER OF FURTHER WARRANTY

RC Mowers makes no warranty, express or implied, other than what is expressly made in this warranty. If the law of your state provides that an implied warranty of merchantability, or an implied warranty of fitness for particular purpose, or any other implied warranty, applies to RC Control Mowers, then any such implied warranty is limited to the duration of this warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from region to region.



2158 Deerfield Ave E., Suamico, WI 54173

RCMowersUSA.com

(920) 634-2227

support@rcmowersusa.com

To find an authorized dealer visit RCMowersUSA.com or contact us by mail or phone.



WARNING: The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, and other reproductive harm.