

Zoom®

Owner/Operator Manual

Models









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INTRODUCTION

THE MANUAL

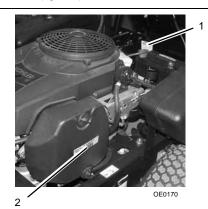
Before operation of unit, carefully and completely read your manuals. The contents will provide you with an understanding of safety instructions and controls during normal operation and maintenance.

All reference to left, right, front, or rear are given from operator seated in operation position and facing the direction of forward travel.

MODEL AND SERIAL NUMBERS

When ordering replacement parts or making service inquiries, know the Model and Serial numbers of your unit and engine.

Numbers are located on the product registration form in the unit literature package. They are printed on a serial number label, located on the frame of your unit under the seat (figure 1).



- 1. Unit Serial Number Label
- 2. Engine Serial Number Label

Figure 1

- Record Unit Model and Serial numbers here.
- Record Engine Model and Serial numbers here.

PRODUCT REGISTRATION

The Ariens dealer must register the product at the time of purchase. Registering the product will help the company process warranty claims or contact you with the latest service information. All claims meeting requirements during the limited warranty period will be honored, whether or not the product registration card is returned. Keep a proof of purchase if you do not register your unit

Customer Note: If the Dealer does not register your product, please fill out, sign and return the product registration card to Ariens or go to www.ariens.com on the internet.

UNAUTHORIZED REPLACEMENT PARTS

Use only Ariens replacement parts. The replacement of any part on this unit with anything other than an Ariens authorized replacement part may adversely affect the performance, durability, and safety of this unit and may void the warranty. Ariens disclaims liability for any claims or damages, whether warranty, property damage, personal injury or death arising out of the use of unauthorized replacement parts.

NOTE: A complete Parts manual may be download from www.ariens.com on the internet.

DELIVERY

Customer Note: If you have purchased this product without complete assembly and instruction by your retailer, it is your responsibility to:

 Read and understand all assembly instructions in this manual. If you do not understand or have difficulty following the instructions, contact your nearest Ariens Dealer for assistance.

NOTE: To locate your nearest Ariens Dealer, go to www.ariens.com on the internet.



WARNING: Improper assembly or adjustments can cause serious injury.

Before Attempting to Operate Your Unit:

1. Make sure all assembly has been properly completed.

- 2. Understand all Safety Precautions provided in the manuals.
- Review control functions and operation of the unit. Do not operate the unit unless all controls function as described in this manual.
- 4. Review recommended lubrication, maintenance and adjustments.
- 5. Review Limited Warranty Policy.
- Fill out a product registration card and return the card to the Ariens Company or go to www.ariens.com.

DISCLAIMER

Ariens reserves the right to discontinue, change, and improve its products at any time without notice or obligation to the purchaser.

The descriptions and specifications contained in this manual were in effect at printing. Equipment described within this manual may be optional. Some illustrations may not be applicable to your unit.

SAFETY



WARNING: This cutting machine is capable of amputating hands and feet and throwing objects. Failure to observe the safety instructions in the manuals and on decals could result in serious injury or death.

Slopes are a major factor related to loss-of-control and tip-over accidents. Operation on all slopes requires extra caution.

Tragic accidents can occur if the operator is not alert to the presence of children. Never assume that children will remain where you last saw them.

Gasoline is extremely flammable and the vapors are explosive, handle with care.

Disengage attachment, stop unit and engine, remove key, engage parking brake, and allow moving parts to stop before leaving operator's position.

SAFETY ALERTS



Look for these symbols to point out important safety precautions. They mean:

- $\dot{\mathbb{N}}$
- Attention!
- Personal Safety Is Involved!
- Become Alert!
- Obey The Message!

The safety alert symbol is used in decals and with this manual. Understand the safety message. It contains important information about personal safety.



WARNING: POTENTIALLY HAZARDOUS SITUATION! If not avoided, COULD RESULT in death or serious injury.



DANGER: IMMINENTLY HAZARDOUS SITUATION! If not avoided, WILL RESULT in death or serious injury.



CAUTION: POTENTIALLY HAZARDOUS SITUATION! If not avoided, MAY RESULT in minor or moderate injury. It may also be used to alert against unsafe practices.

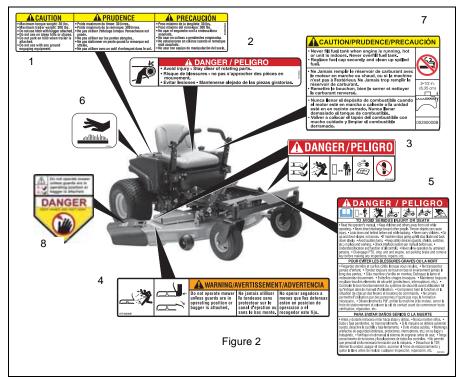
NOTATIONS

NOTE: General reference information for proper operation and maintenance practices.

IMPORTANT: Specific procedures or information required to prevent damage to unit or attachment.

SAFETY DECALS AND LOCATIONS

ALWAYS replace missing or damaged Safety Decals. Refer to figure 2 for Safety Decal locations.



1. CAUTION!

- Maximum Tongue weight: 30 lbs.
- Maximum Trailer weight: 300 lbs.
- Do not use hitch with bagger attached.
- Do not use on steep hills or slopes.
- Do not park on hills when trailer is attached.
- Do not use with any ground engaging equipment.

2. DANGER!



Avoid injury - Stay clear of rotating parts.

3. DANGER!



Always keep feet and hands away from rotating parts.



Always stand clear of discharge area. Do not direct discharge toward other people.



Keep people away from unit while operating.



Shut off engine, remove key, and read manual before you adjust or repair unit.



NO STEP! Always keep feet away from rotating parts.

4. WARNING!



Always stand clear of discharge area.

OL1814



Do not operate mower unless bagger is attached or guards are in operating position.

5. DANGER! TO AVOID SERIOUS INJURY OR DEATH



Read the operator's manual.



Keep children and others away from unit while operating.



Never direct discharge toward other people. Thrown objects can cause injury.



Look down and behind before and while backing.



Never carry children.



OI 1806



Go up and down slopes, not across.

DO NOT operate on slopes over 10°.

- If machine stops going uphill, stop blade and back down slowly.
- · Avoid sudden turns.
- Keep safety devices (guards, shields, switches, etc.) in place and working.
- Check interlock system per manual before use.
- Understand location and function of all controls.
- Never allow operation by untrained persons.
- Disengage PTO, stop unit and engine, set parking brake and remove key before making any inspections, repairs, etc.

6. HOT SURFACES!



DO NOT touch parts which are hot from operation. ALWAYS allow parts to cool.

7. CAUTION



No smoking.



Fill fuel tanks to 2-1/2 in. (6.35 cm) below bottom of filler neck.

- 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.

8. DANGER!



Keep hands and feet away.



Do not operate mower unless guards are in operating position or bagger is attached.

EMISSION CONTROL SYSTEM CERTIFICATION LABEL

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 EPA and/or CARB authorized service centers. Contact your Ariens Equipment Retailer concerning emission controls and component questions.

SAFETY RULES

If unit is to be used by someone other than original purchaser; loaned, rented or sold, ALWAYS provide this manual and any needed safety training before operation.

Only the user can prevent and is responsible for accidents or injuries occurring to themselves, other people or property.

Read, understand, and follow all safety practices in Owner/Operator Manual before assembling, using or working on this mower.

ALWAYS remove key from ignition and wire from spark plug before assembly, or working on this unit.

Inspect unit before each use for: missing or damaged decals and shields, correctly operating safety interlock system, and deterioration of grass catchers. Replace or repair as needed.

ALWAYS check overhead and side clearances carefully before operation. ALWAYS be aware of traffic when crossing or operating along streets or curbs.

Keep children, people, and pets away. Be alert and shut off unit if anyone enters work area. Keep children under watchful care of a responsible adult.

NEVER allow children to operate or play on or near unit.

Keep area of operation clear of all toys, and debris. Thrown objects can cause injury.

Stay alert for hidden hazards, holes, and ruts.

Avoid uneven or rough terrain. DO NOT operate near drop-offs, ditches, or embankments. Unit can suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge cayes in.

Dust, fog, etc. can reduce vision and cause an accident. Operate unit only when there is good visibility and light.

Data indicates that operators, age 60 and above, are involved in a larger percentage of riding mower related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.

Only trained adults may operate unit. Training includes being familiar with controls and actual operation.

NEVER operate unit after or during the use of medication, drugs or alcohol.

NEVER allow anyone to operate this unit when their alertness or coordination is impaired.

Wear adequate safety gear, sturdy shoes, and protective gloves.

DO NOT wear loose clothing or jewelry and tie back hair that may get caught in rotating parts.

Protect eyes, face and head from objects that may be thrown from unit. Wear appropriate hearing protection. Always wear safety goggles or safety glasses with side shields when operating mower.

Avoid sharp edges. Sharp edges can cut. Moving parts can cut off fingers or a hand.

ALWAYS keep hands and feet away from all rotating parts during operation. Rotating parts can cut off body parts.

ALWAYS keep hands away from all pinch points.

Start and operate unit only when seated in operator's position. Steering control levers must be in neutral, PTO disengaged and parking brake set when starting engine.

ALWAYS keep body and hands away from pin holes or nozzles which eject hydraulic fluid under pressure.

DO NOT touch unit parts which might be hot from operation. Allow parts to cool before attempting to maintain, adjust or service. NEVER place your hands or any part of your body or clothing inside or near any moving part while unit is running.

NEVER direct discharge towards persons or property. Thrown objects may ricochet back towards operator. ALWAYS stand clear of the discharge area.

ALWAYS disengage attachment, stop unit and engine, remove key, engage parking brake, and allow moving parts to stop before leaving operator's position.

Use extreme caution on gravel surfaces. Disengage PTO when attachment is not in use and when crossing gravel surfaces.

DO NOT operate unit if safety interlock system is damaged or disabled. Check safety interlock before each use.

ALWAYS remove key to prevent unauthorized use.

DO NOT operate at too fast a rate. Slow down before turning.

Stop engine before removing grass catcher or unclogging chute.

DO NOT mow on wet grass. Reduced traction could cause sliding.

DO NOT try to stabilize the machine by putting your foot on the ground.

Know the weight of loads. Limit loads to those you can safely control and the unit can safely handle.

ALWAYS keep protective structures, guards and panels in good repair, in place and securely fastened.

Do not operate without either entire grass catcher or the discharge guard in place.

DO NOT operate in reverse unless absolutely necessary. ALWAYS look down and behind before and while backing; especially for children.

Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability when using attachments.

NEVER carry passengers—especially children—even with blades off.

Use extra care when approaching blind corners or objects that may obscure vision of hidden obstacles and children.

If you cannot back up a slope or you feel uneasy on it, do not mow it.

Mow up and down slopes, not across them.
Use slow speed on any slope. Tires may lose

Use slow speed on any slope. Tires may lose traction on slopes even though the brakes are functioning properly.

Keep all movements on the slope *slow* and *gradual*. DO NOT make sudden changes in speed or direction.

Use extra care while operating machines with grass catcher or other attachments. They can affect stability of the machine.

Avoid starting, stopping, or turning on a slope. If tires lose traction, disengage the blades and proceed slowly *straight* down the slope.

DO NOT operate on slopes over 10°.

DO NOT park on slopes unless necessary. If unit is parked on a slope, ALWAYS chock or block wheels and set parking brake.

DO NOT disengage or bypass transmission and coast downhill.

Tow only with a machine that has a hitch designed for towing. Do not attach towed equipment except at the hitch point.

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

NEVER allow children or others in or on towed equipment.

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

Travel slowly and allow extra distance to stop.

Use extra care when loading or unloading unit onto trailer or truck.

Secure unit chassis to transport vehicle. NEVER secure from rods or linkages that could be damaged.

DO NOT transport machine while engine is running.

ALWAYS turn off power to attachment and shut off fuel when transporting unit.

Keep unit free of grass clippings, leaves, and other debris. Clean up oil or fuel spills.

This product is equipped with an internal combustion type engine. DO NOT use unit on or near any unimproved, forest-covered or brush covered land unless exhaust system is equipped with a spark arrester meeting applicable local, state or federal laws. A spark arrester, if it is used, must be maintained in effective working order by operator.

Fuel is highly flammable and its vapors are explosive. Handle with care. Use an approved fuel container.

NO smoking, NO sparks, NO flames. ALWAYS allow engine to cool before servicing.

NEVER fill fuel tank when engine is running or hot from operation.

NEVER fill or drain fuel tank indoors.

NEVER overfill fuel tank.

Replace fuel cap securely and clean up spilled fuel.

NEVER fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. Always place containers on the ground away from your vehicle before filling.

When practical, remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then refuel such equipment on a trailer with a portable container, rather than from a gasoline dispenser nozzle.

Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device.

If fuel is spilled on clothing, change clothing immediately.

Avoid Electric Shock. Objects contacting both battery terminals at the same time may result in injury and unit damage. DO NOT reverse battery connections.

Explosive Gases from battery can cause death or serious injury. Poisonous battery fluid contains sulfuric acid and its contact with skin, eyes or clothing can cause severe chemical burns.

NO flames, NO sparks, NO smoking near battery.

ALWAYS wear safety glasses and protective gear near battery. Use insulated tools.

DO NOT TIP battery beyond a 45° angle in any direction.

ALWAYS keep batteries out of reach of children.

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

Reverse connections may result in sparks which can cause serious injury. Always connect positive (+) lead of charger to positive (+) terminal, and negative (-) lead to negative (-) terminal.

ALWAYS disconnect negative (-) cable FIRST and positive (+) cable SECOND. ALWAYS connect positive (+) cable FIRST, and negative (-) cable SECOND.

A frozen battery can explode and result in death or serious injury. DO NOT charge or jump start a battery containing frozen fluid. Thaw the battery before putting on a charger or jump starting.

ALWAYS keep protective structures, guards, and panels in good repair, in place and securely fastened. NEVER modify or remove safety devices.

DO NOT change engine governor settings or over-speed engine.

Fumes from engine exhaust can cause injury or death. DO NOT run engine in an enclosed area. Always provide good ventilation.

ALWAYS maintain unit in safe operating condition. Damaged or worn out muffler can cause fire or explosion.

Stop and inspect equipment if you strike an object or if there is an unusual vibration. Repair, if necessary, before restarting. Never make adjustments or repairs with the engine running.

Mower blades are sharp and can cut you. Wrap the blade(s) or wear gloves, and use extra caution when servicing them. NEVER weld or straighten mower blades.

Rotation of one blade may cause rotation of the other blades.

Check brake operation frequently. Adjust and service as required.

Keep all hardware properly tightened.

Stored energy in springs can cause injury. Maintain or replace safety and instruction labels, as necessary.

Never store the machine or fuel container inside a building where there is an open flame, such as a water heater.

Shut off fuel (if provided) and allow engine to cool completely before storing in closed area or covering unit.

Clean grass and debris from unit, especially from around muffler and engine, to help prevent fires.

For extended storage, clean unit thoroughly. See Engine Manual for proper storage.

Use only attachments or accessories designed for your unit.

Check attachment components frequently. If worn or damaged, replace with manufacturer's recommended parts.

ASSEMBLY



WARNING: AVOID INJURY. Read and understand the entire *Safety* section before proceeding.

Tools Required

- Adjustable wrench
- Petroleum jelly or dielectric grease.

Unpack Unit

Remove unit and all other components from the shipping container. Engage transmission bypass lever (see *MOVING UNIT MANUALLY* on page 14). Push unit from container onto a level surface. Disengage transmission bypass lever.

Connect Battery

See Battery Removal and Installation on page 21 and perform steps 2 and 3 in the installation section.

Place Unit in Operating Position (Figure 3):

NOTE: The seat is shipped with the seat positioned as far back as possible.

- Tip seat forward and adjust the seat as needed (see *TIPPING SEAT FORWARD* on page 17 and *SEAT ADJUSTMENT* on page 17).
- Remove eccentric spacers and rotate steering levers to the operating position. Reinstall spacers. Do not tighten.
- 3. Adjust steering levers (see *ADJUSTING STEERING LEVERS* on page 22).

Check Engine Oil Level

Refer to Engine Manual.

Check Tire Pressure



CAUTION: Avoid injury! Explosive separation of tire and rim parts is possible when they are serviced incorrectly:

- Do not attempt to mount a tire without the proper equipment and experience to perform the job.
- Do not inflate the tires above the recommended pressure.
- Do not weld or heat a wheel and tire assembly. Heat can cause an increase in air pressure resulting in an explosion. Welding can structurally weaken or deform the wheel
- Do not stand in front or over the tire assembly when inflating. Use a clipon chuck and extension hose long enough to allow you to stand to one side.

See SPECIFICATIONS on page 29.

Level Mower Deck

See LEVELLING AND ADJUSTING PITCH OF MOWER DECK on page 18.

Fill Fuel Tank

See FILLING FUEL TANK on page 13.

Check Safety Interlock System

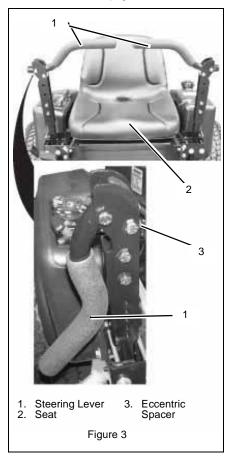


WARNING: Safety interlock failure and improper operation of unit can result in death or serious injury. Check system before each use to make sure it is functioning properly.

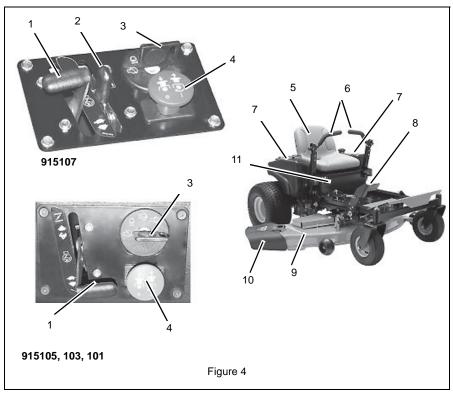
See Safety Interlock System on page 12.

Check function of all controls

See *OPERATION* on page 12.



CONTROLS AND FEATURES



- 1. Throttle Lever
- 2. Choke Control
- 3. Ignition Switch
- 4. PTO Switch
- 5. Seat

- 6. Steering Levers
- 7. Fuel Tank
- 8. Mower Lift Pedal
- 9. Mower Deck
- 10. Discharge Chute
- 11. Parking Brake

OPERATION



WARNING: AVOID INJURY. Read and understand the entire *Safety* section before proceeding.

CONTROLS AND FEATURES

See figure 4 for all controls and features locations.

Safety Interlock System



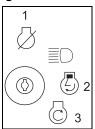
WARNING: Safety interlock failure and improper operation of unit can result in death or serious injury. Check system before each use to make sure it is functioning properly.

Perform the following tests to ensure the safety interlock system is working properly. If the unit does not perform as stated contact your Ariens dealer for repairs.

Test	Steering Lever	PTO	Parking Brake	Engine
1	Neutral Position	Off	Engaged	Starts
2	Neutral Position	On	Engaged	Doesn't Start
3	Neutral Position	Off	Disengaged	Doesn't Start
4*+	Out of Neutral Position	Off	Disengaged	Shuts Off
5*+	Neutral Position	On	Engaged	Shuts Off

 ^{*} Test with engine running.

Ignition Switch



Operate ignition switch with a removable key. Ignition switch has three positions: Stop (1), Run (2), Start (3). See STARTING AND SHUTTING OFF ENGINE on page 14 for detailed instructions on how to start engine.

Throttle Lever (915107)



OE0043

Fast (1) – Increases engine speed.

Slow (2) – Decreases engine speed.

Choke Control (915107)



Push the choke lever forward to start a cold engine. Pull the choke lever to the rear when the engine gets warm.

Throttle Lever (915105, 103, 101)



Choke (1) – Use to start a cold engine.



Fast (2) – Increases engine speed.



Slow (3) – Decreases engine speed.

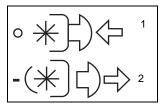
Parking Brake



Engages (2) and disengages (1) parking brake.

⁺ Operator lifts off seat.

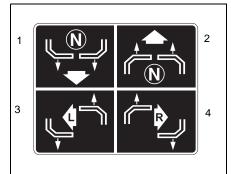
Power Take-Off (PTO) Switch



Engages (2) and disengages (1) mower blades.

Steering Levers

- Reverse (1) Pull both steering levers backward.
- Forward (2) Push both steering levers forward.
- Left (3) Pull left steering lever back or push right steering lever forward or a combination of both.
- Right (4) Pull right steering lever back or push left steering lever forward or a combination of both.



NOTE: To stop, return both steering levers to neutral.

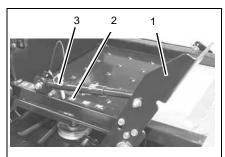
NOTE: The steering levers must be in the neutral position to start the engine.

NOTE: The parking brake must be disengaged prior to moving the steering levers from the neutral position.

Mower Lift Pedal (Figure 5)



Raises and lowers mower deck.



 Mower Lift Pedal Adjustment Hole

3. Adjustment Pin

Figure 5

NOTE: The adjustment pin is used to set the height of the mower deck. See *SPECIFICATIONS* on page 29 for cutting height dimensions.



Press mower lift pedal and install adjustment pin in the desired adjustment hole.

FILLING FUEL TANK

- Clean fuel cap and surrounding area to prevent dust, dirt, and debris from entering fuel tanks.
- 2. Remove fuel cap.

IMPORTANT: See Engine Manual for correct type and grade of fuel.

- 3. Fill fuel tank to 2-1/2 in. (6.35 cm) below bottom of filler neck. See SPECIFICATIONS on page 29 for capacity of fuel tanks.
- 4. Replace fuel cap.

STOPPING IN AN EMERGENCY

Bring steering levers back to neutral, set parking brake, and turn off engine.

STARTING AND SHUTTING OFF ENGINE

Starting the Engine

NOTE: Disengage the PTO, engage the parking brake, and place the steering levers in neutral prior to starting the engine.

- If the engine is cold, move the choke control to the On position. If the engine is warm or hot, do not use choke.
- Move the throttle to 1/3 Fast position. See Engine Manual for detailed instructions.

IMPORTANT: DO NOT operate starter for more than 15 seconds per minute as damage can occur.

- 3. Put the ignition key in the switch and turn it to the Start position.
- 4. As soon as the engine starts, release the kev.
- Move the choke control to the Off position from the Choke position. Wait until the engine is running smoothly before operation.

IMPORTANT: Let the engine warm up several seconds to several minutes depending on outside temperature.

Stopping the Engine

- 1. Stop unit.
- 2. Disengage PTO.
- 3. Set throttle lever to slow.
- 4. Turn ignition switch to off position and remove key.
- 5. Set parking brake.

OPERATING MOWER

- 1. Start engine.
- 2. Set throttle lever to fast.

IMPORTANT: Never engage PTO if mower is plugged with grass or other material.

3. Engage PTO to start mower blades.

NOTE: The parking brake must be disengaged prior to moving the steering levers from the neutral lockout position.

- Release parking brake.
- 5. Use steering levers to move the unit.
- 6. Disengage PTO to stop mower blades.

TRANSPORTING UNIT

ALWAYS shut off engine, set parking brake, remove key, and drain fuel when transporting unit on a truck or trailer. Tie unit down securely. Do not tie down by linkages, guards, cables or other parts that may be damaged.

FOR BEST PERFORMANCE

Cut grass when it is 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.

When mulching, only remove 1/3 of grass length per cutting.

Discharge clippings into areas already cut.

Vary cutting pattern with each mowing.

Do not allow grass or debris to collect inside of mower deck. Clean after each use.

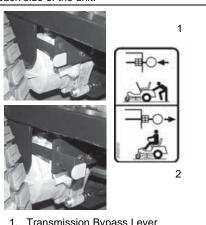
MOVING UNIT MANUALLY



WARNING: DO NOT disengage or bypass transmission and coast downhill.

Disengage (2) transmission bypass levers to drive unit and engage (1) transmission bypass levers to push unit manually (figure 6).

NOTE: There are two bypass levers; one on each side of the unit.



- Transmission Bypass Lever Engaged
- Transmission Bypass Lever
 Disengaged

Figure 6

MAINTENANCE SCHEDULE



WARNING: AVOID INJURY. Read and understand the entire *Safety* section before proceeding.

IMPORTANT: Proper maintenance can prolong the life of unit. The following chart shows the recommended service schedule. Refer to the maintenance instructions in the Engine Manual for additional information.

NOTE: To have full access to the engine, the seat must be tipped forward (see *TIPPING SEAT FORWARD* on page 17) and the hood opened (see *MOWER DECK REMOVAL AND INSTALLATION* on page 17).

Interval	Task	Action
Each Use	Check Safety Interlock System	warning: Safety interlock system failure and improper operation of unit can result in death or serious injury. Test this system each time the unit is operated. If this system does not function as described, do not operate until repairs are made (see Safety Interlock System on page 12).
	Check Parking Brake	Engage parking brake and engage transmission bypass lever (see MOVING UNIT MANUALLY on page 14). Push unit. If unit rolls, contact your Ariens Dealer.
	Clean Unit	Clean engine, battery, seat, mower deck, etc. of all dirt and debris. Do not use solvents, hard cleaners, or abrasives.
		NOTE: Protect painted surfaces with automotive type wax.
	Check Tires	See SPECIFICATIONS on page 29 for correct tire pressure.
		CAUTION: Avoid injury! Explosive separation of tire and rim parts is possible when they are serviced incorrectly:
		 Do not attempt to mount a tire without the proper equipment and experience to perform the job.
		 Do not inflate the tires above the recommended pressure.
		Do not weld or heat a wheel and tire assembly. Heat can cause an increase in air pressure resulting in an explosion. Welding can structurally weaken or deform the wheel.
		 Do not stand in front or over the tire assembly when inflating. Use a clip-on chuck and extension hose long enough to allow you to stand to one side.
	Check Mower Blades	Check for worn or damaged mower blades (see SHARPENING MOWER BLADE on page 20).

Interval	Task	Action
Each Use	Follow Engine Manual Mainten- ance Schedule	Perform scheduled engine maintenance. Refer to Engine Manual for detailed instructions. NOTE: To drain the oil, use the oil drain petcock (1) supplied with unit, not the drain plug that is shown in the Engine Manual.
25 Hours or Every Season	Check Battery Lubricate Unit	Keep battery and battery terminals clean (see Cleaning Battery and Battery Cables on page 21). Apply grease to zerk (1) on each front wheel
50 Hours or Every Season 100 Hours or Every Season	Check Fasteners Check All Belts	Check mower blade mounting hardware and all other fasteners. Replace fasteners that are missing or damaged. Tighten all nuts and bolts to the correct torque value. Replace worn or deteriorated belts. Check hydrostatic belt (see REPLACING HYDROSTATIC BELT on page 24 for hydrostatic belt location). Check PTO belt (see REPLACING PTO BELT on page 23 for PTO belt location).

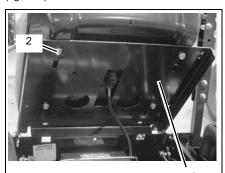
SERVICE AND ADJUSTMENTS



WARNING: AVOID INJURY. Read and understand the entire *Safety* section before proceeding.

TIPPING SEAT FORWARD

Put steering levers up and tip seat forward (figure 7).



- 1. Seat Tipped Forward
- 2. Mounting Hardware

Figure 7

SEAT ADJUSTMENT

- 1. Tip the seat forward.
- Loosen mounting hardware and slide seat forward or backward to desired position. Tighten mounting hardware (figure 7).
- 3. Tip seat back.

MOWER DECK REMOVAL AND INSTALLATION

Remove (Figure 8)

 Remove PTO belt from electric clutch (see REPLACING PTO BELT on page 23).

NOTE: Perform step 2 and 3 for the right and left side of unit.

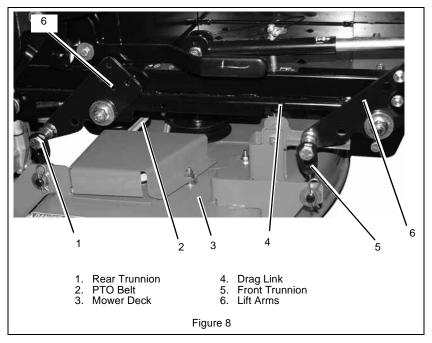
- 2. Remove drag link from mower deck.
- 3. Remove front and rear trunnions from lift arms.
- 4. Slide mower deck out from under unit.

Install (Figure 8)

1. Slide mower deck under unit.

NOTE: Perform step 2 and 3 for the right and left side of unit.

- Install front and rear trunnions on lift arms.
- 3. Install drag link on mower deck.
- 4. Install PTO belt on electric clutch (see REPLACING PTO BELT on page 23).
- Level and adjust pitch of mower deck (see LEVELLING AND ADJUSTING PITCH OF MOWER DECK on page 18).



LEVELLING AND ADJUSTING PITCH OF MOWER DECK

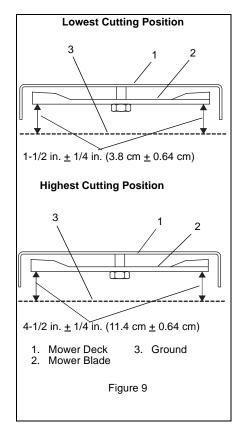
NOTE: Adjust on a level surface, with the tires inflated to the correct air pressure (see *SPECIFICATIONS* on page 29).

There are three measurements required to level and adjust the pitch of the mower deck.

- 1. The distance from the mower blades to the ground.
- 2. The forward pitch of the mower blades.
- 3. The pitch of the mower blades from side-to-side.

The Distance From The Mower Blades To The Ground (Figure 9):

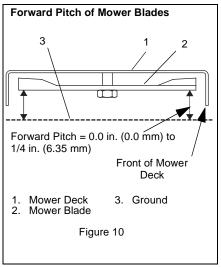
- In the lowest cutting position should be 1-1/2 in. $\pm 1/4$ in. $(3.8 \text{ cm} \pm 0.64 \text{ cm})$.
- In the highest cutting position should be 4-1/2 in. ± 1/4 in. (11.4 cm ± 0.64 cm).



The Forward Pitch Of The Mower Blades (Figure 10):

• Should be 0.0 in. (0.0 mm) to 1/4 in. (6.35 mm) pitched forward.

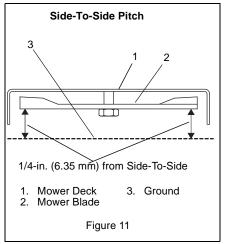
NOTE: This measurement must be taken when the mower blades ends are facing forward.



The Pitch Of The Mower Blades From Side-To-Side (Figure 11):

 Should be within 1/4 in. (6.35 mm) as measured on each side of the mower deck.

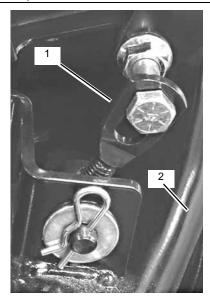
NOTE: This measurement must be taken when the mower blades ends are perpendicular (at a right angle) to the frame of the unit.



Adjusting The Mower Deck To Adjust Mower Blade Height And Pitch (Figure 12):

NOTE: Adjusting the mower deck will adjust he height and pitch of the mower blades.

- Adjust the trunnions first and re-take the three measurements required to level and adjust the pitch of the mower deck. These measurements are:
 - a. The distance from the mower blades to the ground.
 - b. The forward pitch of the mower blades.
 - c. The pitch of the mower blades from side-to-side.
- Repeat step 1 as needed until all three measurements are within the tolerances specified.



1. Trunnion

2. Mower Deck

Figure 12

REPLACING MOWER BLADE

Remove (Figure 13)

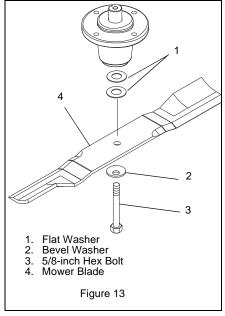


CAUTION: Mower blades are sharp and can cut you. Wrap the blades or wear gloves, and use extra caution when servicing them.

- 1. Block mower blades to prevent rotation.
- 2. Remove mounting hardware and mower blades from mower deck.

Install (Figure 13)

- 1. Install mower blades on mower deck with mounting hardware.
- 2. Torque 5/8-inch hex bolt to 80 to 120 lbf-ft (108 to 163 N•m).



SHARPENING MOWER BLADE



CAUTION: DO NOT sharpen mower blade while on unit. An unbalanced mower blade will cause excessive vibration and eventual damage to unit. Check mower blade balance prior to reinstalling mower blades.

NEVER weld or straighten mower blades.

1. Remove mower blade from unit (see REPLACING MOWER BLADE on page 20).

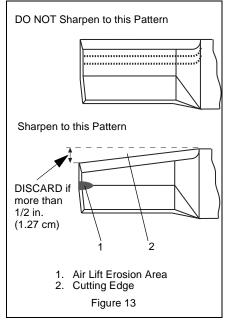
Ariens recommends having mower blades sharpened by a professional. Contact your Ariens dealer.

Discard mower blade if (figure 13):

- more than 1/2 in. (1.27 cm) of metal is removed.
- the air lift erosion area is eroded.
- the mower blade is bent or broken.

Do not change angle of cutting edge or round the corner at the end of mower blade.

- 2. Sharpen mower blade by removing an equal amount of material from each end of mower blade.
- 3. Check mower blade balance by sliding mower blade on an unthreaded bolt. If blade is balanced, it should remain in a horizontal position. If either end of mower blade moves downward, sharpen the heavy end until mower blade is balanced.
- 4. Install mower blade on unit (see REPLACING MOWER BLADE on page 20).



SERVICING THE BATTERY

NOTE: Unit comes equipped with a maintenance-free battery that requires no regular maintenance except cleaning the terminals.



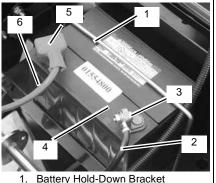
WARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

Battery Removal and Installation Remove (Figure 13)

- 1. Tip seat forward (see TIPPING SEAT FORWARD on page 17).
- 2. Disconnect negative (-) cable first, then positive (+) cable.
- 3. Remove battery hold-down bracket and battery from unit.

Install (Figure 13)

- 1. Install battery on the unit with battery hold-down bracket.
- 2. Connect positive (+) cable first, then negative (-) cable.
- 3. Apply petroleum jelly or dielectric grease to battery cable ends and terminals.
- 4. Tip seat back (see TIPPING SEAT FORWARD on page 17).



- Negative (–) Cable Negative (–) Terminal
- Battery
- 5. Positive (+) Terminal
- 6. Positive (+) cable

Figure 13

Cleaning Battery and Battery Cables (Figure 13)

- 1. Tip seat forward (see TIPPING SEAT FORWARD on page 17).
- 2. Disconnect negative (-) cable first, then positive (+) cable.

- 3. Clean battery cable ends, negative (-) terminal, and positive (+) terminal with a wire brush and rinse with a weak baking soda solution.
- 4. Connect positive (+) cable first, then negative (-) cable.
- 5. Apply petroleum jelly or dielectric grease to battery cable ends and terminals.
- 6. Tip seat back (see TIPPING SEAT FORWARD on page 17).

Charging the Battery

(Figure 13)



WARNING: FROZEN **BATTERIES CAN EXPLODE** and result in death or serious injury. DO NOT charge a frozen battery. Let the battery thaw before charging.

Follow First Aid directions for contact with battery fluid.

- External Contact: Flush with water.
- Eyes: Flush with water for at least 15 minutes and get medical attention immediately!
- Internal Contact: Drink large quantities of water, Follow with Milk of Magnesia. beaten egg or vegetable oil. Get medical attention immediately!
- In case of internal contact, DO NOT induce vomitina!

IMPORTANT: DO NOT fast charge. Charging at a higher rate will damage or destroy batterv.

IMPORTANT: ALWAYS follow information provided on battery and battery charger. Contact battery and battery charger manufacturers' for detailed instructions.

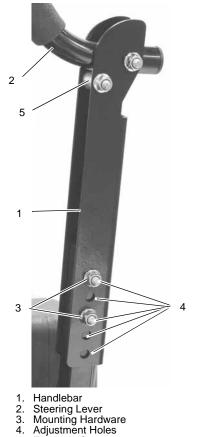
- 1. Remove battery from unit (see Battery Removal and Installation on page 21).
- Place battery in a well-ventilated area.
- 3. Connect positive (+) lead of charger to positive (+) terminal, and negative (-) lead of charger to negative (-) terminal.
- 4. Charge battery according to battery charger and battery manufacturers' instructions.
- Install battery on unit (see Battery) Removal and Installation on page 21).

Jump-Starting

Ariens does not recommend jump-starting vour unit. Jump-starting can damage engine and electrical system components. See your engine manual for more detailed information.

ADJUSTING STEERING LEVERS

Adjusting Steering Lever Height (Figure 13)



- - **Eccentric Spacer**

Figure 13

NOTE: Perform steps 1 and 2 for both steering levers.

- 1. Remove mounting hardware and move handlebar up or down until the steering levers are at the appropriate height.
- Install mounting hardware.

NOTE: Alian handlebars by adjusting eccentric spacer until the height of handlebars are the same.

Forward and Reverse Speed Adjustment

(Figure 14)

IMPORTANT: The unit should track within 2 feet (0.61 m) of a straight line for 30 feet (9.14 m).

The travel of the steering levers may need adjustment if:

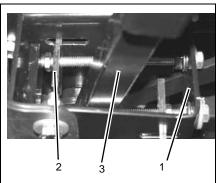
- The unit turns to the right or left when both steering levers are pushed as far forward as possible.
- The unit turns to the right or left when both steering levers are pulled back as far rearward as possible.

NOTE: The side the unit turns toward indicates that the wheel on that side is turning slower than the other wheel. Either the wheel that is turning faster needs to slow down or the wheel that is turning slower needs to be sped up to allow the unit to travel in a straight line.

1. Determine which way the unit turns.

NOTE: The forward travel adjustment bolt adjusts the forward travel of the steering lever. The rear travel adjustment bolt adjusts the rearward travel of the steering lever.

- 2. Adjust speed by:
- Turning adjustment bolt clockwise to decrease steering lever travel.
- Turning adjustment bolt counterclockwise to increase steering lever travel.



- 1. Forward Travel Adjustment Bolt
- 2. Rear Travel Adjustment Bolt
- 3. Steering Lever

Figure 14

REPLACING PTO BELT

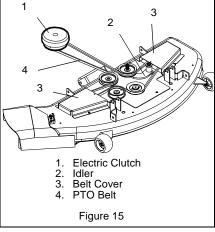
Remove (Figure 15)

- 1. Lower mower deck to the ground.
- 2. Remove belt covers from mower deck.



CAUTION: Use care when releasing idler spring tension. Keep body parts well away from idler when performing this operation.

- Pull idler arm towards outside of unit until tension is removed from PTO belt.
- Remove PTO belt from left mower deck pulley.
- Slowly release idler arm until tension is removed from idler spring.
- Remove PTO belt from mower deck and electric clutch.



Install (Figure 15)

NOTE: Do not install PTO belt on left mower deck pulley in step 1.

- Install PTO belt on electric clutch and mower deck.
- Pull idler arm towards outside of unit until PTO belt can be routed around left mower deck pulley.
- 3. Slowly release idler arm until idler pulley rests firmly against PTO belt.
- 4. Install belt covers on mower deck.

REPLACING HYDROSTATIC BELT

Remove (Figure 16)

- 1. Remove PTO belt (see REPLACING PTO BELT on page 23).
- Disconnect Electric Clutch Connector from PTO.

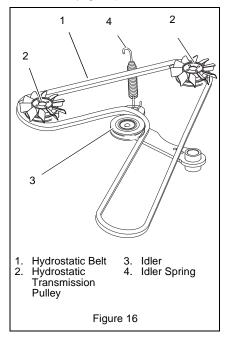


CAUTION: Use care when releasing idler spring tension. Keep body parts well away from idler when performing this operation.

- 3. Disconnect idler spring.
- 4. Remove hydrostatic belt from hydrostatic transmission pulleys, pulley, electric clutch, and idler.

Install (Figure 16)

- Install hydrostatic belt on idler, electric clutch, pulley, and hydrostatic transmission pulleys.
- 2. Connect idler spring.
- 3. Connect electric clutch connector.
- 4. Install PTO belt (see REPLACING PTO BELT on page 23).



STORAGE

Short Term Storage

IMPORTANT: NEVER clean unit with high-pressure water or store unit outdoors.

Remove all dirt, grease, leaves, etc. Store in a clean dry area.

Inspect unit for signs of wear or damage. Ensure all fasteners are properly tightened.

Long Term Storage

Follow all instructions under *Short Term Storage*.

Remove and fully charge battery. Store in a clean dry area.

Drain fuel from fuel tank.

Refer to Engine Manual for the proper engine storage procedures.

Touch up all scratched or chipped paint surfaces.

Fuel System

Gasoline left in the fuel system for extended periods without a stabilizer will deteriorate, resulting in gum deposits in the system. These deposits can damage the carburetor and the fuel hoses, filter and tank. Prevent deposits from forming in the fuel system during storage by adding a quality fuel stabilizer to the fuel. Follow the recommended mix ratio found on the fuel stabilizer container.

To treat the fuel system for storage:

- Add fuel stabilizer according to manufacturers's instructions.
- Run engine for at least 10 minutes after adding stabilizer to allow it to reach the carburetor.

NEVER store the engine with fuel in the fuel tank inside of a building with potential sources of ignition.

TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE	CORRECTION		
Engine will not crank/start.	Safety interlock system is not engaged or is faulty.	Check safety interlock system (see Safety Interlock System on page 12).		
	Fuel tank empty.	Fill fuel tank (see FILLING FUEL TANK on page 13).		
	Discharged battery.	Charge battery (see Charging the Battery on page 22).		
	Poor connection between battery and battery cables.	Tighten battery cables and/or clean battery and battery cables (see Cleaning Battery and Battery Cables on page 21).		
	5. Spark plug wire(s) loose or spark plug(s) faulty.	 Connect spark plug wire(s) or replace spark plug(s). Refer to Engine Manual for detailed instructions. 		
	Faulty electrical system.	6. Contact your Ariens Dealer.		
	7. Faulty engine.	7. Contact your Ariens Dealer.		

PROBLEM	PROBABLE CAUSE	CORRECTION	
Engine	Choke engaged.	Disengage choke.	
runs rough.	Air filter cartridge plugged.	Clean or replace air filter cartridge. Refer to Engine Manual for detailed instructions.	
	Faulty engine.	Contact your Ariens Dealer.	
Unit does not move with engine running when	The transmission bypass lever is engaged.	Disengage transmission bypass lever (see MOVING UNIT MANUALLY on page 14).	
using steering levers.	Faulty hydrostatic belt.	Replace hydrostatic belt (see REPLACING HYDROSTATIC BELT on page 24).	
	Faulty transmission.	Contact your Ariens Dealer.	
PTO or mower blades do not engage or	Operator presence switch not depressed.	Depress operator presence switch by sitting on seat.	
shuts off.	Faulty operator presence switch.	Contact your Ariens Dealer.	
	Electric clutch connector is loose or disconnected.	Connect the electric clutch connector. See REPLACING HYDROSTATIC BELT on page 24 for the electric clutch connector location.	
	4. Faulty PTO belt.	Replace PTO belt (see REPLACING PTO BELT on page 23).	
	5. Faulty PTO switch, wires, connectors, or clutch.	5. Contact your Ariens Dealer.	
Engine overheats.	Engine oil level low.	Add engine oil. Refer to Engine Manual for detailed instructions.	
	Cooling system plugged.	Clean cooling system. Refer to Engine Manual for detailed instructions.	
	Faulty engine.	Contact your Ariens Dealer.	
Unit moves with engine off and parking	The parking brake needs adjustment.	Contact your Ariens Dealer.	
brake engaged.	Faulty parking brake.	Contact your Ariens Dealer.	

PROBLEM	PROBABLE CAUSE	CORRECTION
Unit does not travel in a	Incorrect tire pressure.	Check tire pressure (see SPECIFICATIONS on page 29)
straight line.	Steering levers need adjustment.	Adjust steering levers (see Forward and Reverse Speed Adjustment on page 23)
	Hydrostatic transmission and/or linkage needs adjustment.	3. Contact your Ariens Dealer.
Unit creeps with steering levers in neutral position.	Hydrostatic transmission and/or linkage needs adjustment.	Contact your Ariens Dealer.
Poor cutting quality.	Mower deck not level or mower pitch is incorrect.	Level and adjust pitch of mower deck (see LEVELLING AND ADJUSTING PITCH OF MOWER DECK on page 18).
	Dull or faulty mower blades.	Sharpen mower blades (see SHARPENING MOWER BLADE on page 20) or replace mower blades (see REPLACING MOWER BLADE on page 20).

SERVICE PARTS

Be sure to always use genuine Ariens parts to keep your unit running like new.

to keep your arm raining like now.			
Part No.	Qty	Description	
51510000	1	Spindle Assembly	
07100124	1	Front Wheel	
02997300	1	Muffler Weldment (915107)	
00480600	1	PTO Clutch (915107, 105)	
03292300	1	PTO Clutch (915103, 101)	
07237900	1	PTO Belt	
07200107	1	50-Inch Mower Deck Belt (915107, 105)	
07241800	1	40-Inch Mower Deck Belt (915103)	
07200116	1	34-Inch Mower Deck Belt (915101)	
08861600	1	50-Inch Mower Blade (915107, 105)	
03498400	1	40-Inch Mower Blade (915103)	
00651800	1	34-Inch Mower Blade (915101)	
08866800	1	50-Inch Mulching Blade (915107, 105)	
00272800	1	40-Inch Mulching Blade (915103)	
00869100	1	34-Inch Mulching Blade (915101)	

ACCESSORIES

See your authorized Ariens dealer to add these optional accessories to your unit.

these optional accessories to your unit.			
Part no.	Qty	Description	
71502900	1	Dump Cart	
71503200	1	48-Inch Aerator	
71503300	1	36-Inch Roller	
71503400	1	48-Inch Dethatcher	
71503500	1	15 Gallon Sprayer	
71503600	1	Spreader	
71503800	1	48-Inch Lawn Sweeper	
71504900	1	Sun Shade	
71507300	1	50-Inch Mulch Kit	
71507800	1	40-Inch Mulch Kit	
71508000	1	34-Inch Mulch Kit	
71506300	1	Headlight Kit	
81501800	1	50-Inch Bagger Kit	
81501900	1	40-Inch Bagger Kit	
81502000	1	34-Inch Non-Powered Bagger	
71507600	1	Ariens Hood Kit	

SPECIFICATIONS					
Model Number	915107	915105	915103	915101	
Model	2450	2150	1840	1634	
Engine			JI.		
Туре	Briggs & Stratton ELS	В	riggs & Stratton In	tek	
Engine Power – hp (kW) at Maximum RPM	24 (17.9)	21 (15.6)	18 (13.4)	16.5 (12.3)	
Governed RPM (May be different from maximum RPM)	3350	3350	3350	3350	
Speed			•		
Forward Max. – m.p.h (km/h)		6.0	(9.6)		
Reverse Max. – m.p.h (km/h)		3	(4.8)		
Turning Radius			ero		
Brakes		Internal T	ransmission		
Electrical					
Starter			ectric		
Battery		12 Volt Mair	ntenance Free		
PTO (Power Take- Off)		Electric C	lutch/Brake		
Fuel					
Fuel Type			ngine Manual		
Fuel Tank Capacity – gal. (L)			(12.3)		
Transmission		Hydrost	tatic Drive		
Size and Weight					
Length – in. (cm)		70	(178)		
Width – in. (cm)	58 (147)	58 (147)	48 (122)	44 (112)	
Weight – lbs (kg)	540 (245)	520 (236)	520 (236)	510 (231)	
Height – in. (cm)		40	(102)		
Tires					
Front Tire Size – in. (cm)		4 x 11 (10.6 x 28)		
Rear Tire Size – in. (cm)	18 x 9.5 x 8 (46 x 24 x 20)	18 x 9.5 x 8 (46 x 24 x 20)	18 x 8.5 x 8 (46 x 21 x 20)	18 x 6.5 x 8 (46 x 17 x 20)	
Front Tire Pressure – psi (kPa)	46 (317)				
Rear Tire Pressure – psi (kPa)	12 (82.7)				
Mower Deck					
Cutting Height – in. (cm)	1.5 – 4.5 (3.8 – 11.4)				
Cutting width – in. (cm)	50 (127)	50 (127)	40 (102)	34 (86)	
Max. Towing Capacity – lbs (kg)	300 (136)				
Max. Tongue Weight – Ibs (kg)	30 (13.6)				



Two-Year Limited Lawn and Garden Consumer Ride-On Warranty

Ariens Company (Ariens) warrants to the **original purchaser** that Ariens and Gravely brand consumer products manufactured and sold by Ariens after December 31, 2007 will be free from defects in material and workmanship for a period of two years after the date of purchase. An authorized Ariens dealer (Ariens brand products) or Gravely dealer (Gravely brand products) 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.

Five-Year Limited Warranty on Mower Deck Shell

The deck shell on zero-turn riding mowers is warranted to the **original purchaser** for five years from the date of purchase. Any defect in material or workmanship of the deck shell will be repaired free of charge (parts and labor) to the original purchaser for two years after the date of purchase. For the third through fifth year from the date of purchase, the parts required to repair a defect in material or workmanship of the deck shell, not the labor, will be provided free of charge.

Five-Year Limited Warranty on Main Frame

The main frame on zero-turn riding mowers is warranted to the **original purchaser** for five years from the date of purchase. Any defect in material or workmanship of the main frame will be repaired free of charge (parts and labor) to the original purchaser for two years after the date of purchase. For the third through fifth year from the date of purchase, the parts required to repair a defect in material or workmanship of the main frame, not the labor, will be provided free of charge.

90-Day Limited Warranty on Service Parts and Accessories

Genuine Ariens or Gravely brand service parts and accessories are warranted to be free from defects in material and workmanship for a period of 90 days after the date of purchase. An authorized Ariens or Gravely dealer will repair or replace any such part or accessory free of charge, except for labor, during that period.

The duration of all warranties herein applies only if the product is put to personal use around a household or residence. If the product is put to any business use, agricultural, commercial, or industrial, then the duration of these warranties shall be 90 days after the date of purchase. If any product is rented or leased, then the duration of these warranties shall be 90 days after the date of purchase.

Exceptions, Limitations, Exclusions

Customer Responsibilities

Register the product immediately at the time of sale. If the dealer does not register the product, the customer must complete the product registration card in the literature package and return it to the Ariens Company, or register the unit online at www.ariens.com or www.gravely.com.

To obtain warranty service, the original purchaser must:

- · Perform the maintenance and minor adjustments explained in the owner's manual.
- Promptly notify Ariens or an authorized Ariens or Gravely service representative of the need for warranty service.
- Transport the product to and from the place of warranty service.
- Have the warranty service performed by an authorized Ariens or Gravely service representative.

To find an Ariens or Gravely authorized service representative, contact Ariens at:

655 W. Ryan Street Brillion, WI 54110 (920) 756 - 2141 www.ariens.com www.gravely.com

Exceptions and Limitations

Batteries are warranted only for a period of 12 months after date of purchase, on a prorated basis. For
the first 90 days of the warranty period, a defective battery will be replaced free of charge. If the
applicable warranty period is more than 90 days, Ariens will cover the prorated cost of any defective
battery, for up to 12 months after the date of purchase.

Exclusions – Items Not Covered by This Warranty

- Engines and engine accessories are covered only by the engine manufacturer's warranty and are not
 covered by this warranty.
- Eye-Q[™] and Scan-Mate[™] units are covered by their own warranty and are not covered by this warranty.
- · Parts that are not genuine Ariens or Gravely service parts are not covered by this warranty.
- The following maintenance, service and replacement items are not covered by this warranty unless
 they are noted in the Limitations section above: lubricants, spark plugs, oil, oil filters, air filters, fuel
 filters, brake linings, brake arms, shoes, runners, scraper blades, shear bolts, mower blades, mower
 vanes, headlights, light bulbs, knives, cutters.
- Any misuse, alteration, improper assembly, improper adjustment, neglect, or accident which requires
 repair is not covered by this warranty.
- This warranty applies only to products purchased in the United States (including Puerto Rico) and Canada. In all other countries, contact place of purchase for warranty information.

Disclaimer

Ariens may from time to time change the design of its products. Nothing contained in this warranty shall be construed as obligating Ariens 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

Ariens Company's 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. Ariens 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

Ariens Company 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 Ariens Company, 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 state to state.



Ariens Company 655 West Ryan Street Brillion, WI 54110-1072 920-756-2141 Fax 920-756-2407 www.ariens.com

▲ WARNING **▲**

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