

Max Zoom[™]

Owner/Operator Manual Manuel du Propriétaire/Utilisateur

Models

991085 - Max Zoom 48 (SN 30000 +)

991086 - Max Zoom 52 (SN 30000 +)

991087 - Max Zoom 60 (SN 30000 +)





The use of any gasoline exceeding 10% ethanol (E10) or 10% MTBE will void the product warranty. L'utilisation d'une essence contenant plus de 10% d'éthanol (E10) ou de 10% de MTBE annulent la garantie.







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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 sitting in the operation position and facing the direction of forward travel.

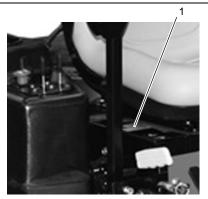
ENGINE MANUAL

The engine on this unit is covered by a separate manual specific to the engine. This manual is included in the literature package that shipped with the unit. Refer to this manual for engine service recommendations. If the engine manual is not available, contact the engine manufacturer for a replacement manual.

SERVICE AND REPLACEMENT PARTS

When ordering publications, 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 literature package. They are printed on a serial number label, located on the frame of your unit (Figure 1).



1. 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 equipment 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 regarding warranty, property damage, personal injury or death arising out of the use of unauthorized replacement parts.

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

DISCLAIMER

Ariens reserves the right to discontinue, change, and improve its products at any time without public 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.

DEALER DELIVERY

Dealer should:

- 1. Test parking brake after unit is assembled to be sure adjustment has not been disturbed in shipment (See *Parking Brake Interlock System* on page 14). Wheel brakes are properly adjusted at factory.
- Check the safety interlock system to make sure that it is functioning properly. With operator on seat, unit must not start unless steering levers are in neutral and power takeoff (PTO) is disengaged (Off). Engine must stop if operator lifts from seat when steering levers are in any drive position or PTO is engaged (On). See Safety Interlock System on page 14.
- 3. Fill out Original Purchaser Registration Card and return the card to Ariens.
- 4. Explain Limited Warranty Policy.

 Explain recommended lubrication and maintenance. Advise customer on adjustments. Instruct customer on controls and operation of unit. Discuss and emphasize the Safety Precautions. Give customer this Owner/Operator and the engine manual. Advise customer to thoroughly read and understand them.

Customer Note: Your Dealer has been provided complete set-up and preparation instructions which must be completed prior to you taking delivery of this unit. The dealer is required to review important information in this manual with you before or upon delivery of the unit or attachment.

PRACTICES AND LAWS

Practice usual and customary safe working precautions, for the benefit of yourself and others. Understand and follow all safety messages. Be alert to unsafe conditions and the possibility of minor, moderate, or serious injury or death. Learn applicable rules and laws in your area, including those that may restrict the age of the operator.

REQUIRED OPERATOR TRAINING

Original purchaser of this unit was instructed by the seller on safe and proper operation. 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.

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 an Ariens Company dealer or an authorized engine manufacturer's service center. Contact your Ariens Company Equipment Retailer concerning emission controls and component questions.

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.

Read these safety rules and follow them closely. Failure to follow these rules could lead to loss of control of unit, severe personal injury or death to you or bystanders or result in damage to property or the machine.



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.

Safety Alert Symbol



SIGNAL WORDS

The safety alert symbols above and signal words below are used on decals and in this manual.

Read and understand all safety messages.

1. Danger



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

2. Warning



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

3. Caution



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

4. Notice

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

5. Important

IMPORTANT: Indicates general reference information worthy of special attention.

SAFETY DECALS

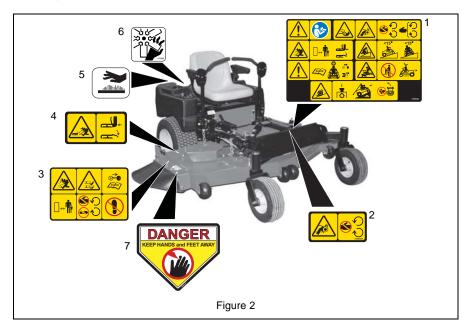
This cutting machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

The safety decals on your machine are visual reminders of the important safety information found in this manual. All messages found on your unit must be fully understood and carefully followed. Safety decals found on the machine are explained below.

Always replace missing or damaged safety decals. Replacement decals can be found in the parts manual for your machine and ordered from your dealer.

Refer to Figure 2 for Safety Decal locations.

1. Safety Decal Identification



2. Safety Decal Description

| 2. Safety Decal Description | |
|---|---|
| 1. DANGER! | To avoid amputation hazard do not put hands near moving belts. |
| DANGER! | Keep hands away from all rotating or moving parts. |
| Read and understand the operator's manual before operating unit. | Keep all guards and shields in place. |
| 1.1 Amputation Hazard | |
| | 1.2 Discharge Hazard |
| To avoid amputation hazard do not put hands near rotating blades. | Discharge Hazard – NEVER direct discharge toward people, pets or property. Thrown objects can cause injury or |
| | damage. |



Keep children and others away from unit while unit is in operation.



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

1.3 Tipping Hazard



Avoid tipping hazard.



DO NOT operate on slopes over 15°.



DO NOT operate on slopes over 15°.

1.4 Service Hazard



Before servicing unit do the following:



Read owners manual before servicing or making adjustments to unit.



Set parking brake.



Remove key and disconnect spark plug before servicing or making adjustments to unit.

1.5 Bystander Hazard



DO NOT operate the unit in the presence of bystanders.



Do not carry passengers.



Look behind when operating the unit in reverse.

1.6 Loss of Traction Hazard



If loss of traction is experienced do the following:



Disengage PTO.



Look before backing. Proceed off slope slowly.



Do not try to turn or speed up.

2. DANGER!



Discharge Hazard – NEVER operate unit without discharge chute in operating position. Thrown objects can cause injury or damage.



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

3. DANGER!



Discharge Hazard – NEVER direct discharge toward people, pets or property. Thrown objects can cause injury or damage.



Amputation Hazard – NEVER stick hands or feet under deck or shielded areas.



Shut off engine, remove key, and read manual before servicing or making adjustments to unit.

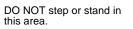


Keep children and others away from unit while unit is in operation.



Keep feet and hands away from all rotating or moving parts.





4. DANGER!



Discharge Hazard – NEVER operate unit without discharge chute in operating position. Thrown objects can cause injury or damage.



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

5. HOT SURFACES!



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

6. ROTATING PARTS!



AVOID INJURY. Stay clear of rotating parts.

7. DANGER!



DANGER! Keep hands and feet away from all rotating or moving parts.

SAFETY RULES

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

The following safety instructions are based on the B71.1 specifications of the American National Standards Institute in effect at the time of production.

Training

Read, understand, and follow all instructions on the machine and in the manuals before starting.

Be sure the area is clear of bystanders and pets before operating. Stop machine if anyone enters the area.

Improper use of power equipment can cause serous 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

If the operator or the mechanic cannot read the manual, it is the owner's responsibility to explain it to them.

Always train any inexperienced operators and require them to read and understand all manuals and decals.

Only allow responsible adults, who are familiar with the instructions, to operate this machine.

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

Operator Age

Do not allow children under the age of 18 to operate any outdoor power equipment.

Local regulations may restrict the age of the operator.

Data indicates operators age 60 years and above are involved in a large 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.

Children

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.

Be alert and turn machine off if a child enters the area.

Before and while backing, look behind and down for small children.

Never carry children, even with the blade(s) shut off. They may fall off and be seriously injured or interfere with safe machine operation. Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the machine.

Never allow children to operate the machine.

Use extreme care when approaching blind corners, shrubs, trees, or other objects that may block your view of a child.

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

Personal Protection

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

Wear adequate outer garments.

NEVER wear open sandals or canvas shoes during operation. Wear adequate safety gear, protective gloves and footwear.

Wear proper footwear to improve footing on slippery surfaces

Always wear eye and ear protection when operating machine.

Before Operating

Keep all nuts and bolts tight to be sure the equipment is in safe working condition.

Maintain the machine to be in compliance with the maintenance schedule.

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

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

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.

Ensure Safety Interlock System is functioning properly. DO NOT operate unit if safety interlock is damaged or disabled.

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.

Never tamper with safety devices. Check their proper operation regularly.

Keep machine free of grass, leaves, or other debris build-up. Clean up oil or fuel spillage and remove any fuel-soaked debris.

Operation

Be sure the area is clear of bystanders before operating. Stop machine if anyone enters the area.

Never operate machine in a closed or poorly ventilated area.

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

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.

Do not operate machine while under the influence of alcohol or drugs.

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

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

Do not operate machine without the entire grass catcher, discharge guard, or other safety devices in place and working.

Always keep hands and feet away from all pinch points.

Avoid slippery surfaces. Always be sure of your footing.

Never carry passengers.

Never direct discharged 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.

Never engage PTO when attachment, including mower blades, is not in use. Always turn off power to attachment when not in active use such as traveling or crossing driveways.

Always disengage PTO, stop unit and engine, remove key, engage parking brake and allow moving parts to stop before leaving operator's position. Never engage PTO while raising the attachment, including mower blades, or when attachment is in the raised position.

Keep safety devices or guards in place and functioning properly. Never modify or remove safety devices.

Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.

Stop engine before removing grass catcher or unclogging chute.

Slow down before turning.

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

Never leave a running machine unattended. Always turn off blade(s), set parking brake, stop engine and remove key before dismounting.

Disengage blade(s) when not mowing. Shut off engine and wait for all parts to come to a complete stop before cleaning the machine, removing the grass catcher, or unclogging the discharge guard.

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

Operating Conditions

Always check overhead and side clearances carefully before operation.

Watch for traffic when operating near or crossing roadways.

Clear the area of objects such as rocks, wire, toys, etc., which could be thrown by the blades.

Check for weak spots on docks, ramps or floors. Avoid uneven work areas and rough terrain. Stay alert for hidden hazards or traffic.

Use care when approaching blind corners, shrubs, trees or other objects that may obscure vision.

Dust, smoke, fog, etc. can reduce vision and cause an accident.

Operate machine only in daylight or good artificial light.

| Slope Operation | Fuel | |
|--|---|--|
| Slopes are a major factor related to loss of control and tip-over accidents, which can result in severe injury or death. Operation on all slopes requires extra caution. If you | To avoid personal injury or property damage, use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive. | |
| cannot back up the slope or if you feel uneasy on it, do not mow it. | Ethanol blends must not exceed E10. Higher ethanol content may cause your | |
| DO NOT operate on slopes of more than 15°. | machine to run hotter and damage your engine. | |
| Mow up and down slopes, not across. Watch for holes, ruts, bumps, rocks, or other | Replace fuel cap securely and clean up spilled fuel before starting engine. | |
| hidden objects. Uneven terrain could overturn the machine. Tall grass can hide obstacles. | Extinguish all cigarettes, cigars, pipes, and other sources of ignition. | |
| Do not mow on moist or wet grass. Tires | Use only an approved gasoline container. Never store the machine or fuel container | |
| may lose traction causing a loss of control. Use extra care while operating machine with | where there is an open flame, spark, or pilot light such as on a water or space heater or | |
| grass catchers or other attachments; they can affect the stability of the machine. Do not use on steep slopes. | other appliances. Never fill containers inside a vehicle or on a truck or trailer bed with a plastic liner. | |
| Keep all movements on the slope <i>slow</i> and <i>gradual</i> . Do not make sudden changes in | Always place containers on the ground away from your vehicle before filling. | |
| speed or direction, which could cause the machine to roll over. | Never fuel the machine indoors. | |
| Avoid starting, stopping, or turning on a slope. If the tires lose traction, disengage the blade(s) and proceed slowly straight | Never remove gas cap or add fuel with the engine running. Allow engine to cool before fueling. | |
| down the slope. Operation on slopes may lead to loss of steering control. When operating on slopes be prepared to react to an emergency | Fuel is highly flammable and its vapors are explosive. Handle with care. Use only an approved gasoline container with an appropriately sized dispensing spout. | |
| situation: | NO smoking, NO sparks, NO flames. | |
| Return steering levers to neutral position. Immediately set parking brake. Turn off PTO and engine. | Remove gas-powered equipment from the trailer and refuel it on the ground. If this is not possible, then refuel such equipment with a portable container, rather than from a gasoline dispenser nozzle. | |
| DO NOT try to stabilize the machine by putting your foot on the ground. DO NOT park on slopes unless necessary. | Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until the fueling is complete. Do not | |
| When parking on slope always chock or block wheels. Always set parking brake. | use a nozzle lock-open device. Never overfill fuel tank. Replace gas cap | |
| Choose a low ground speed so you will not have to stop or shift while on a slope. | and tighten securely. | |
| DO NOT operate near drop-offs, ditches, or embankments. Unit can suddenly turn over if | If fuel is spilled on clothing, change clothing immediately. | |
| a wheel is over the edge of a cliff or ditch, or if an edge caves in. | Towing | |
| Do not bypass transmission or allow transmission to free-wheel when on a slope. | 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. | |

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

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

Travel slowly and allow extra distance to stop.

Accessories

Follow the manufacturer's recommendation for wheel weights or counterweights

Check grass catcher components and the discharge guard frequently nad replace with the manufacturer's recommended parts, when necessary.

Use only Ariens Company-recommended attachments that are appropriate to your use and can be used safely in your application.

Batteries

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

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.

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.

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.

Service

Maintain or replace safety and instruction labels, as necessary.

Keep unit free of debris. Clean up oil or fuel spills.

ALWAYS block wheels and know all jack stands are strong and secure and will hold weight of unit during maintenance.

Release any pneumatic or hydraulic pressure from components slowly.

NEVER attempt to make any adjustments to unit while engine is running (except where specifically recommended). Stop engine, remove key or spark plug wire and wait for all moving parts to stop before servicing or cleaning.

Lower cutting deck unless a positive mechanical lock is used.

Allow engine to cool before servicing.

Moving parts can cut or amputate fingers or a hand. On multiblade mowers, rotation of one blade will cause all blades to rotate.

Never weld or straighten mower blades.

Never make adjustments or repairs with the engine running.

Mower blades are sharp. Wrap the blade or wear gloves, and use extra caution when servicing them.

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

Transporting Unit

Use extra care when loading or unloading the machine into a trailer.

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.

Storage

NEVER store unit with fuel in fuel tank, inside a building where any ignition sources are present.

Keep machine free of grass, leaves, or other debris build-up. Clean up oil or fuel spillage and remove any fuel-soaked debris. Allow machine to cool before storing.

For extended storage, shut off fuel and clean unit thoroughly. See engine manual for proper storage.

ASSEMBLY

WARNING: AVOID INJURY.

Read and understand entire Safety section before proceeding.

UNIT ASSEMBLY

Package Contents

Unit, Mower Deck and Literature Pack

Preparation Checklist

Refer to the Owner/Operator manual as required.

- 1. Unpack Unit Remove shrink wrap and packaging materials.
- Remove Unit From Container Open Bypass Valves (dump valves) (See Moving the Unit with the Engine Off on page 17).

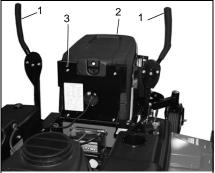
Push unit from container onto a level surface. Close the bypass valves.

3. Tires – See Specifications on page 33.



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.
- 4. Seat See Seat Adjustments on page 15 and Service Position on page 20.
- Position Steering Levers Remove eccentric spacers and rotate steering levers to the operating position. Reinstall spacers. Tighten hardware securely. See Aligning the Steering Levers (Figure 13) on page 25.



- 1. Steering Levers
- 2. Seat
- 3. Mounting Hardware

Figure 3

- 6. Battery Remove battery from unit and charge (See *Battery* on page 23).
- Check Engine Crankcase Check and add oil if needed. See Engine Manual for specifications.
- 8. Fill Engine Fuel Tank Fill fuel tank. DO NOT OVERFILL! See *Filling Fuel Tank* on page 16.
- NOTE: See engine manual for fuel type.
 - 9. Hardware Check for loose hardware.
 - Check Safety Interlock System Check to see that the interlock system operates correctly (See Safety Interlock System on page 14).

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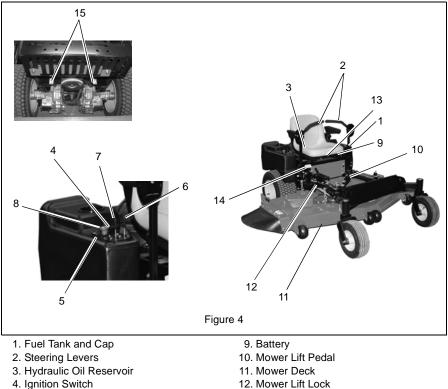
WARNING: FAILURE OF INTERLOCK together with improper operation can result in severe personal injury.

- Lubrication Lubricate all fittings per maintenance label under seat and check hydrostat oil level (See Lubricate Unit on page 24).
- 12. **On 60-inch Decks:** Remove the discharge chute from the transport position and place the discharge chute in the operating position.
- Level Deck Check unit to ensure deck level set at factory has been maintained (See Leveling the Mower Deck on page 30).
- 14. Check Function of all Controls Ensure unit runs and performs properly.



WARNING: FAILURE OF CONTROLS could result in death or serious injury.

CONTROLS AND FEATURES



- 5. Hour Meter
- 6. Throttle Lever
- 7. Choke Control
- 8. Power Take Off (PTO) Switch
- 12. Mower Lift Lock
- 13. Seat Adjustment Lever
- 14. Parking Brake
- 15. Bypass Valve Lever

OPERATION



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

CONTROLS AND FEATURES

See Figure 4 for Controls and Features locations.

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.

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.

NOTE: When the parking brake is engaged, the steering levers are locked in neutral.

| Test | Steering Levers | PTO | Parking Brake | Engine | |
|------|---------------------------------|-------|------------------|------------------|--|
| STA | RTING IN | TERLC | OCK | | |
| 1 | Neutral | Off | Engaged | Starts | |
| 2 | Neutral | On | Engaged | Doesn't Start | |
| 3 | Neutral | Off | Dis- engaged | Doesn't Start | |
| OPE | OPERATING INTERLOCK (ENGINE ON) | | | | |
| 4* | Neutral | On | Engaged | Shuts Off | |
| 5* | Neutral | Off | Dis- engaged | Shuts Off | |
| * Op | * Operator lifts off seat. | | | | |

Parking Brake Interlock System

With the parking brake engaged, the steering levers must be locked in neutral.

With the parking brake disengaged, the engine must not start and the engine must shut off if the operator leaves the seat.

Steering Levers



The steering levers control speed and direction. In addition, they will stop the unit.

- A. For reverse travel, pull both steering control levers backward.
- B. For straight forward travel, push both steering control levers forward.
- C. To turn left, pull the left back or push the right steering control lever forward or a combination of both.
- D. To turn right, pull the right back or push the left steering control lever forward or a combination of both.

To stop, return both steering levers to neutral.

NOTE: The steering controls are mechanically locked in neutral whenever the parking brake is engaged.

NOTE: Aggressive turning can scuff or damage lawns. ALWAYS keep both wheels rotating when making sharp turns. DO NOT make turns with inside wheel completely stopped. To obtain minimum turning radius, slowly reverse inside wheel while moving outside wheel slowly forward.



Ignition Switch

Operate the ignition switch with the removable key. The switch has three positions: Off (1), On (2) and Start (3). To start the engine, turn the key to Start, then release to On. To stop the engine, turn the key to Off.

Choke Control

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



1

2

Throttle Lever

The throttle lever changes the engine speed. Move the throttle lever to Fast (1) to increase engine speed. Move the lever to Slow (2) to decrease engine speed.

Cutting Height:

Put cutting height adjustment pin in desired hole. Push mower lift pedal forward and hold it while pushing down on the lift lock. Slowly lower mower lift pedal until deck lift contacts cutting height adjustment pin.



Parking Brake Lever

1. Pull lever up to engage parking brake.

2. Push lever down to disengage parking brake.

Seat Adjustments



WARNING: Make all seat adjustments with unit stationary, parking brake on and engine shut off.

To adjust seat forward or backward:

- 1. While seated, pull seat adjustment lever outward and slide seat into desired position.
- 2. Release lever and slide seat forward or back to lock seat into position.

Hour Meter

Press and release the toggle button to shift between different functions.

Press and hold the toggle button to reset the timer or clear a service message.

The hour meter has three functions:

Hour Meter: measures the amount of time the engine has been run. This time cannot be cleared.

Timer (TMR1): measures the time spent on individual jobs.

Press and hold the toggle button to reset the timer to zero. TMR1 will then start measuring engine run time until it is reset to zero again.

Service Alert (Chg Oil, Chg H Oil & Filter, SVC Airfilter): reminds operators of the maintenance interval for changing the engine oil, changing the hydraulic oil and filter and servicing the air filter.

The alert starts counting down two hours before the maintenance is due. The meter flashes the word, "Now," when it reaches the maintenance time.

Press and hold the toggle button to reset the maintenance clock to zero after perfoming the service.

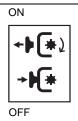
NOTE: The hour meter is preprogrammed for the initial oil change at 25 hours and for 100 hours thereafter. The hour meter is programmed for the initial hydraulic oil and filter change at 75 hours and for 400 hours thereafter.



Bypass Valve Lever Pull the lever back to set

Pull the lever back to set the pump in neutral and move the unit with the engine off.

Push the lever in to set the pump in the drive position and operate the unit.



Power Take Off (PTO) Switch

Power take off (PTO) switch engages and disengages the mower blades.

Pull the power take off (PTO) switch to "On" position to engage mower blades.

Push the power take off (PTO) switch to "Off"

position to disengage mower blades.

NOTE: The engine will not start unless the steering control levers are in the neutral position, the PTO switch is in the "Off" position and parking brake is set.

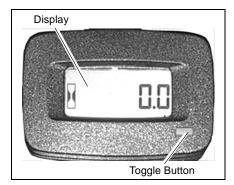
Mower Lift Pedal



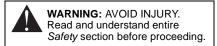
Mower lift pedal raises and lowers mower deck for mowing or transport.

Transport:

Push mower lift pedal all the way forward until lift lock engages.



FILLING FUEL TANK



Add fuel to Fuel Tank as needed. See your Engine Manual for correct type and grade of fuel.

To add fuel to the fuel tank:

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

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

3. Fill fuel tank to the bottom of filler neck. See *Specifications* on page 33 for fuel tank capacity.

IMPORTANT: DO NOT OVERFILL! This equipment and/or its engine may include evaporative emissions control system components, required to meet EPA and/or CARB regulations, that will only function properly when the fuel tank has been filled to the recommended level. Overfilling may cause permanent damage to evaporative emissions control system components. Filling to the recommended level ensures a vapor gap required to allow for fuel expansion. Pay close attention while filling the fuel tank to ensure that the recommended fuel level inside the tank is not exceeded. Use a portable gasoline container with an appropriately sized dispensing spout when filling the tank. Do not use a funnel or other device that obstructs the view of the tank filling process.

- 4. Replace fuel cap and tighten.
- 5. ALWAYS clean up spilled fuel.

GASOLINE

IMPORTANT: ALWAYS use gasoline that meets the following guidelines:

- Clean, fresh gasoline.
- A minimum of 87 octane/87 AKI (91 RON). High altitude use may require a different octane. Consult your engine manual.
- Gasoline with up to 10% ethanol (gasohol) or up to 10% MTBE (methyl tertiary butyl ether) is acceptable.
- Use of any gasoline other than those approved above will void the engine warranty. If the pumps are not marked for the content of alcohol or ethers, check ethanol and MTBE levels with the fuel supplier.
- Do not modify the fuel system to use different fuels.
- Never mix oil and gasoline.

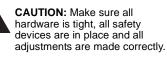
NOTE: All gasoline is not the same. If the engine experiences starting or performance problems after using a new gasoline, switch to a different fuel provider or fuel brand.

IMPORTANT: Excessively oxygenated or reformulated fuels (fuels blended with alcohols or ethers) can damage the fuel system or cause performance problems. If any undesirable operating problems occur, use a gasoline with a lower percentage of alcohol or ether.

Fuel Stabilizer

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.

PRE-START



1. Check Safety Interlock System

If this system does not function as described do not operate until repairs are made.

2. Check Air Cleaner

Check air filter for dirt. Clean as required. Follow Engine Manual Maintenance Schedule.

3. Check Engine Fuel and Crankcase Oil

Check and add fuel if required. Check that engine crankcase oil is full. Follow Engine Manual Maintenance Schedule.

4. Check Tire Pressure

See *Specifications* on page 33 for correct tire pressure.

5. Check Hydraulic Fluid Level

See Check Hydraulic Fluid Level on page 21.

6. Adjust Seat

Be sure all controls can be reached safely from operator's position.

7. Set Cutting Height

Make sure the deck is set to the correct cutting height.

STOPPING IN AN EMERGENCY

WARNING: Operating unit on slopes may lead to loss of steering control. When operating on slopes be prepared to react to an emergency situation.

- 1. Return steering levers to neutral position.
- 2. Immediately set parking brake.
- 3. Turn off PTO and engine.

STARTING AND SHUT OFF



CAUTION: Read entire Owner/Operator Manual, Clutch Manual, and Engine Manual first. DO NOT attempt to start engine at this time.

To start the engine:

- 1. Make sure the steering levers are in neutral.
- 2. Put the PTO switch in the "Off" position.
- 3. Engage parking brake.
- 4. 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 3/4 "Fast" position. See Engine Manual for detailed instructions.
- 6. Put the ignition key in the switch and turn it to the "Start" position.
- 7. As soon as the engine starts, release the key.
- 8. Move the choke control to the "Off" position from the "Choke" position. Wait until the engine is running smoothly before operation.

To stop the engine:

1. Bring the steering levers to neutral. Disengage the PTO and engage the parking brake.

- 2. Move the throttle lever to the "Slow" position.
- 3. Turn the ignition key to the "Off" position.

TO MOW WITH UNIT

Operate the unit only when seated in the operator's position.

- 1. Start the engine. Let the engine warm until it is running smoothly.
- 2. Release parking brake.



WARNING: Move the steering control levers slowly and keep the throttle control lever at slow speed until you learn how to operate the unit.

- 3. Bring the steering levers to neutral.
- 4. Slow the engine down to about 3/4 speed.
- 5. Turn ON the PTO switch to engage the mower.

IMPORTANT: Never engage the PTO if the mower is plugged with grass or other material. This may cause damage to the electric clutch.

- 6. Move throttle control to fast.
- 7. Move the steering levers forward to obtain a slow ground speed.
- 8. To disengage the mower, move the PTO switch to the "Off" position.
- When you know how to operate the unit, select a speed appropriate to your mowing conditions.

PARKING

To park the unit:

- 1. Bring the steering levers to neutral. Turn off PTO.
- Move the throttle lever to the "Slow" position.
- 3. Engage the parking brake.
- 4. Lower the attachment.
- 5. Turn the ignition key to the "Off" position and remove the key.

MOVING THE UNIT WITH THE ENGINE OFF

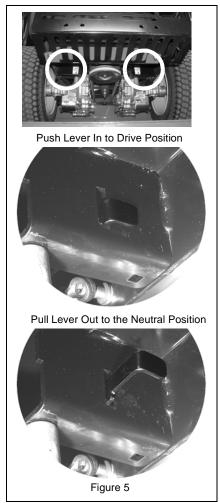
IMPORTANT: Never tow unit.

- 1. Shut OFF engine.
- 2. Place seat in the service position (See Service Position on page 20).
- 3. Pull the right and left bypass levers to the neutral position.



WARNING: Do not bypass transmission when on a slope.

- 4. Disengage parking brake.
- 5. Push unit to desired location.
- 6. Engage parking brake.
- 7. Push the right and left bypass levers to the drive position.



FOR BEST PERFORMANCE

Cut grass when it is dry.

Keep mower blades sharp.

Keep mower deck properly levelled.

Adjust anti-scalp rollers to prevent scalping. 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. Do not cut more than 1 inch (2.54 cm) at any one time.

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.

MAINTENANCE SCHEDULE



WARNING: AVOID INJURY. Read and understand entire Safety section before proceeding. Proper maintenance can prolong the life of unit. The following charts show the recommended service schedule. More frequent service may be required due to working conditions (heavy loads, high ambient temperatures, dusty conditions, or airborne debris).

See the maintenance instructions in the Engine Manual for additional information.

| Period | Service | Task |
|-------------|--|---|
| | Check Safety Interlock | 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 <i>Safety Interlock System</i> on page 14. |
| | Check Parking Brake Interlock System | See Parking Brake Interlock System on page 14. |
| | Check Hydraulic Fluid | Check hydraulic oil level mark on cap/dipstick. Add 20W50 engine oil as needed. Do not overfill. See Check Hydraulic Fluid Level on page 21. |
| | Check Tires | See Specifications on page 33for correct tire pressure. |
| Each Use | | 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. |
| | Clean Unit | Clean engine, battery, seat, mower deck, etc. of dirt and debris. Do not use solvents, hard cleaners, or abrasives. IMPORTANT: Do not spray the unit with water, especially when the unit is warm from operation. Water can seep into bearings and damage them. NOTE: Protect painted surfaces with automotive type wax. |
| | Follow Engine Manual Maintenance Schedule | Perform scheduled engine maintenance. Refer to engine manual for detailed instructions. |

| Period | Service | Task |
|-----------------------|---|---|
| Every 25 Hours | Check Mower Blades | Check mower blades for wear. Sharpen or replace as needed. See <i>Mower Blades</i> on page 22. |
| Every | Check Air Fllter | Check air filter for dirt. Clean as required. Follow Engine Manual for maintenance schedule. |
| 50 Hours | Lubricate Unit | Oil all pivot points and pin connections. Grease lube fittings. See <i>Lubricate Unit</i> on page 24. |
| nouro | Check Brake Gap | Adjust gap if necessary. See <i>Adjusting the Parking Brake</i> on page 26. |
| | Clean Battery | Keep battery and its terminals clean. See Clean Battery on page 23. |
| Every 100 Hours | Check Fasteners | Check mower blade mounting hardware and all other fasteners. Replace missing or damaged fasteners. Tighten all nuts and bolts to their correct torque value. |
| | Check Belts | Replace worn or deteriorated belts. See <i>Replacing</i> <i>Mower Belts</i> on page 27 and <i>Replacing the Hydro</i> <i>Pump Belt</i> on page 28. |
| Every 400 Hours | Change Hydraulic Fluid and Filter [*] | Drain hydraulic fluid tank, replace hydraulic oil filter, refill system. See <i>Hydraulic Fluid</i> on page 21. |
| l | L | al filten often the first 70 hours of ensuration and then |

*Change hydraulic fluid and filter after the first 75 hours of operation and then every 400 hours.

SERVICE AND ADJUSTMENTS

Ariens Dealers will provide any service which may be required to keep your unit operating at peak efficiency. Should engine service be required, it can be obtained from a Ariens Dealer or the engine manufacturer's authorized service center.



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



CAUTION: HOT SURFACES may result in injury. DO NOT touch engine or drive parts which are hot from operation. Allow parts to cool before servicing.

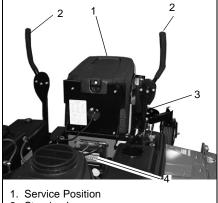
SERVICE POSITION

- 1. Place unit on a flat level surface. ALWAYS stop engine. Ensure unit is secure and will not tip over. Strap and clamp onto lift if used.
- 2. Place steering levers in neutral and engage parking brake.
- 3. Remove wing knob.
- 4. Tip seat forward (Figure 6).



CAUTION: Be sure footing is secure to accomodate weight shift of seat when rotating it into service position.

5. When service is complete, lower seat and secure with wing knob or hex nut.



- 2. Steering Levers
- 3. Parking Brake
- 4. Battery

Figure 6

HYDRAULIC FLUID

WARNING: HYDRAULIC FLUID can result in severe burns. Fluid in hydraulic system can penetrate skin and result in serious injury or death.

Be sure to stop the engine before doing any work on hydraulic parts.

Keep body and hands away from pin holes or nozzles which expel hydraulic fluid when under pressure. Use paper or cardboard, not hands, to search for leaks.

Ensure all hydraulic fluid connections are tight and all hydraulic hoses and lines are in good condition before applying pressure to system.

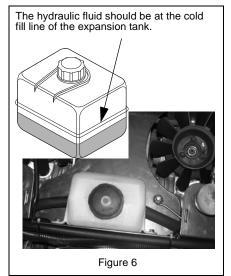
FOREIGN FLUID INJECTED INTO BODY can result in gangrene. Fluid must be surgically removed within a few hours by a doctor familiar with this form of injury.

Check Hydraulic Fluid Level

Check the system with the unit cold and parked on a flat, level surface. Then run the unit for about one minute and recheck the levels.

To Add Hydraulic Fluid:

- 1. Remove the cap from the expansion tank.
- Fill the expansion tank with 20W-50 engine oil with an SL API classification until oil level reaches the cold fill line on the tank.
- 3. Install the expansion tank cap and then purge the system. See *Purging the Hydraulic System* on page 22.



Change Hydraulic Fluid and Filter

NOTE: Change hydraulic fluid and filter after the first 75 hours of operation and then every 400 hours. Use 20W-50 engine oil with an SL API classification.

- 1. Place container under oil filter to catch oil.
- 2. Remove the filter guard and oil filter from the transaxle.
- 3. Remove the oil drain plug or fitting from the inlet port and allow the transaxle to drain completely.
- 4. Clean the filter mounting surface and then lubricate rubber gasket on new oil filter with clean hydraulic oil.
- 5. Spin new oil filter onto filter housing until it makes contact. Tighten oil filter another 3/4 turn.
- Install the filter guards removed in step 2. Tighten the mounting screws to 65 lbf-in (7.3 N•m).

- 7. Fill with 20W-50 engine oil with an SL API classification until oil appears at the bottom of the drain plug (about 2 quarts per transaxle). Install the drain plug and tighten it to 180 lbf-in (20.3 N•m).
- Repeat steps 1 7 for the other transaxle.
- 9. Follow the instructions in *To Add Hydraulic Fluid:* on page 21.

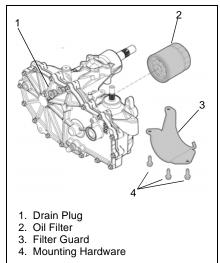
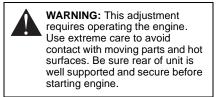


Figure 7

Purging the Hydraulic System



- 1. With the unit up to and facing a wall, jack up the unit so that both drive wheels are off the ground.
- 2. Disengage the parking brake and put the transaxle bypass levers in the neutral position. See *Moving the Unit with the Engine Off* on page 17.
- 3. Start the engine and slowly move the steering levers in forward and reverse five or six times.
- 4. Stop the engine and put the transaxle bypass levers in the drive position. See *Moving the Unit with the Engine Off* on page 17.

- 5. Start the engine and slowly move the steering levers in forward and reverse five or six times.
- 6. Stop the engine, check the oil level and add oil as needed.
- 7. Repeat steps 2 6 until the transaxles operate smoothly in forward and reverse at normal speeds without excessive noise.

MOWER BLADES

Remove

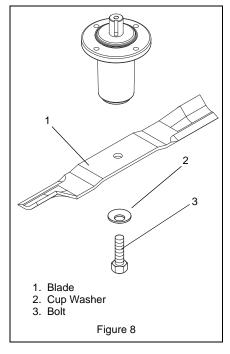


CAUTION: Use sturdy gloves or padding to protect hands when working with mower blades.

- 1. Turn the engine off. Remove the ignition key. Remove the ignition wire from the spark plugs.
- 2. Remove the bolts, cup washer, and blades from the spindle shafts.

Replace

- 1. Put the blades, cup washers, and the bolts back on the spindle shafts.
- Tighten the bolts to a torque of 115 − 160 lbf-ft (156 − 217 N•m).
- 3. Replace the ignition wire on the spark plugs.

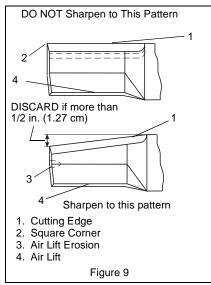


Sharpen the Mower Blades



CAUTION: DO NOT sharpen mower blades while on unit. An unbalanced mower blade will cause excessive vibration and eventual damage to unit. Check mower blade balance before reinstalling blades. NEVER weld or straighten bent blades.

- 1. Remove mower blade from unit. Discard mower blade if:
- More than 1/2 in. (1.27 cm) of metal is removed.
- Air lifts become eroded.
- Blade is bent or broken.
- Sharpen mower blade by removing an equal amount of material from each end of mower blade. DO NOT change angle of cutting edge or round the corner of the mower blade.
- Check mower blade balance.
 Slide mower blade on an unthreaded bolt. A balanced blade should remain in a horizontal position. If either end of mower blade moves downward, sharpen the heavy end until blade is balanced.
- 4. Install mower blade(s) on unit.
- Tighten the bolts to a torque of 115 160 lbf-ft (156 – 217 N•m).



BATTERY



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



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.

Unit comes equipped with a maintenancefree battery that requires no regular maintenance except cleaning the terminals.

Remove Battery

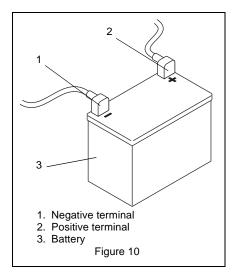
- 1. Shut OFF engine. Engage parking brake. Remove the ignition key.
- 2. Place seat in the service position (See *Maintenance Schedule* on page 19).
- 3. Disconnect cables from battery (negative, then positive) (Figure 10).
- 4. Remove hold down and remove battery.

Replace Battery

- 1. Replace battery and secure with battery hold down.
- Reconnect cables to battery (positive, then negative). Position boot over positive terminal.
- 3. Return seat to operating position.

Clean Battery

Keep battery and its terminals clean. Inspect every 100 operating hours or monthly for best performance.



- 1. Remove battery from unit. See *Remove Battery* on page 23.
- 2. Clean terminals and battery cable ends with wire brush.
- 3. Coat terminals with dielectric grease or petroleum jelly.
- 4. Replace battery. See *Replace Battery* on page 23.

Charging the Battery

Battery Electrolyte First Aid

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 vomiting!

IMPORTANT: DO NOT fast charge. Charging at a higher rate will damage or destroy battery. ONLY use an automatic charger designed for use with your battery.

ALWAYS follow information provided on battery by battery manufacturer. Contact battery manufacturer for extensive instructions to charge battery.

- 1. Remove battery from unit. See *Remove Battery* on page 23.
- 2. Place battery on bench or other wellventilated place.
- 3. Connect positive (+) lead of charger to positive (+) terminal, and negative (–) lead to negative (–) terminal.

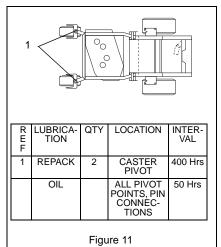
- 4. Charge battery according to charger and battery manufacturers' instructions.
- 5. Replace battery. See *Replace Battery* on page 23.

Jump-Starting

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

LUBRICATE UNIT

Apply oil at all pivot points and pin connections.



STEERING CONTROL NEUTRAL ADJUSTMENT

Eliminating Excessive Creeping of the Unit (Figure 12)

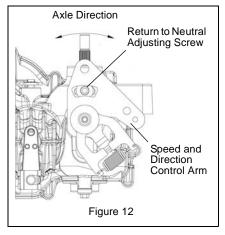
WARNING: This adjustment requires operating the engine. Use extreme care to avoid contact with moving parts and hot surfaces. Be sure rear of unit is well supported and secure before starting engine.

- 1. If hydraulic system is cold, run unit for a minimum of five minutes, then shut OFF engine.
- 2. With the unit up to and facing a wall, jack up the unit so that both drive wheels are off the ground.
- 3. Remove the drive wheels from the unit.
- 4. Start the engine, run engine at full throttle, and release the parking brake.

- 5. Move the steering levers from Forward to Reverse several times to make sure controls are free. Then return steering levers to neutral position.
- 6. Check wheel(s) for movement.

NOTE: The right and left hydraulic pumps are adjusted the same way.

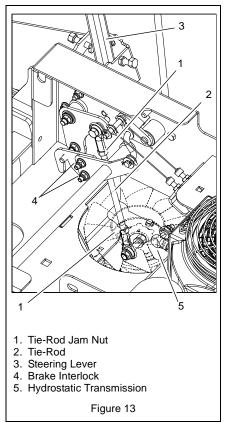
- If a wheel moves, adjust the return to neutral mechanism on the hydraulic pump:
 - a. Loosen the return to neutral screw on the pump.
 - Slowly move the speed and direction control bracket clockwise or counterclockwise until the wheel stops moving.
 - c. Hold the stop bracket in position and tighten the return to neutral screw on the pump.
- 8. Move steering levers from Forward to Reverse several times and return steering levers to neutral position. Check wheel(s) for movement.
- 9. If wheel is still moving, repeat steps 7 and 8.
- 10. Shut OFF engine.
- 11. Replace drive wheels.



Aligning the Steering Levers (Figure 13)

- 1. Shut OFF engine. Engage parking brake. Remove the ignition key.
- 2. Place seat in the service position (See *Service Position* on page 20).
- 3. Loosen brake interlock on the same side as steering lever to be adjusted.

- 4. Loosen tie rod jam nuts and turn tie rod until steering levers are aligned.
- 5. Tighten jam nut on tie rod, tighten brake interlock.



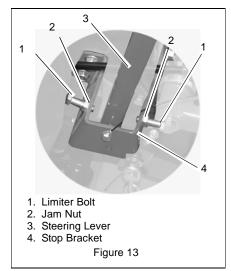
ADJUSTING THE UNIT TO TRACK STRAIGHT



WARNING: Prior to adjusting the tracking of the unit, shut OFF engine, engage parking brake, and remove the ignition key.

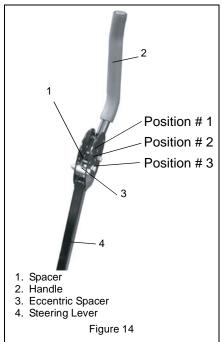
Check and adjust tire pressure. Increase pressure on side unit tracks to. DO NOT exceed maximum recommended tire pressure (See *Specifications* on page 33). If tire pressure adjustment does not solve tracking pathlem adjust the limite balts on

tracking problem, adjust the limiter bolts on the stop bracket (Figure 13). Front bolts adjust forward and rear bolts adjust reverse. Lengthen the limiter bolt (move closer to lever) on side which is too fast.



ADJUSTING THE HEIGHT OF THE STEERING LEVER HANDLES

The handles have three height positions (Figure 14).



- 1. Shut OFF engine. Engage parking brake. Remove the ignition key.
- 2. Remove the spacer, handle, and eccentric spacer from the steering lever.

NOTE: Position the right and left handles at the same height position.

- 3. Install the spacer, handle, and eccentric spacer in the appropriate height position. Do not tighten the nut holding the eccentric spacer.
- 4. Turn the eccentric spacer until the right and left handles are the same height. Tighten nut.

ADJUSTING THE PARKING BRAKE

The parking brake should not need adjustment, however if the parking brake does not hold the unit properly, the brake may need adjustment.

Check Adjustment

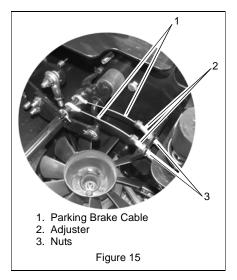
NOTE: Be sure to check the parking brake on both sides of the unit (Figure 15).

- 1. Engage parking brake and set both transmission bypass valves to the neutral position. See *Moving the Unit with the Engine Off* on page 17.
- Push the unit forward.
 If the unit easily rolls forward the transmission brakes are not fully engaging. Tighten the brake cable to fully engage the brake lever on the transmission.

Adjust the Parking Brake

- 1. Disengage the parking brake.
- 2. Loosen the nuts on the parking brake cable adjuster and then turn the adjuster until the cable is taut, not tight.
- 3. Engage the parking brake and check the adjustment. Repeat as needed.
- 4. Tighten the nuts.

NOTE: Set both bypass valves to the drive position when finished adjusting the brake.



PTO BELT



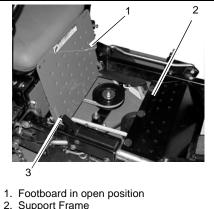
WARNING: MOVING PARTS can cut or amputate body parts. ALWAYS wait for moving parts to stop before performing maintenance or service.



CAUTION: DAMAGED OR WORN BELTS may result in injury and/or damage to unit. Check belts for excessive wear or cracks often.

PTO Belt Access

- 1. Properly stop and park unit (See *Operation* on page 14).
- 2. Lower the mower.
- 3. Place seat in most rearward position.
- 4. Remove belt covers.
- 5. Place foot board in open position (Figure 16).



3. Pivot

Figure 16

Replacing Mower Belts

NOTE: Long mower belt must be removed to remove short mower belt.

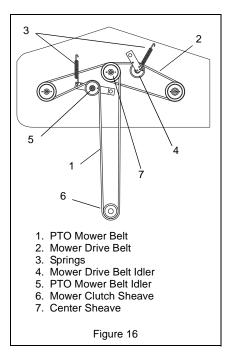


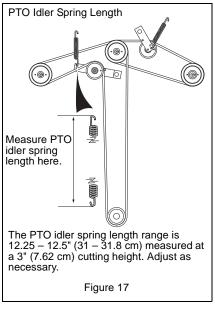
CAUTION: Use care when releasing idler spring tension. Keep body parts well away from idlers when performing this operation.

- 1. Slowly release the tension on the long mower belt idler until all the tension is removed from the springs.
- 2. Remove long mower belt from left blade spindle and remove from deck.
- 3. Slowly release the tension on the short belt idler until all the tension is removed from the springs.
- Remove short mower belt from right blade spindle and from deck. Idler pivot bolt must be loosened slightly to gain clearance to remove belt from under idler pulley (Figure 16).
- Arrange new mower belt(s) on deck (short belt first). Retighten short mower belt idler pivot bolt. Install belts on sheaves. Put belts onto center sheave last.

NOTE: The PTO idler spring length range is 12.25 – 12.5" (31 – 31.8 cm) measured at a 3" (7.62 cm) cutting height. Adjust the idler spring length as needed, see Figure 17.

6. Replace belt covers and return foot board to closed position.





Replacing the Hydro Pump Belt

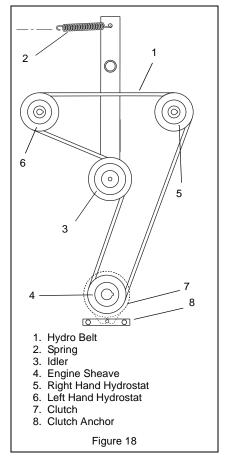
1. Properly stop and park unit (See *Operation* on page 14).

2. Remove the PTO belt from the mower clutch sheave (See *Replacing Mower Belts* on page 27).



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

- Slowly release the tension on the hydro pump belt idler until all the tension is removed from the springs.
- 4. Remove old hydro pump belt from right hand hydrostat sheave first (Figure 18).
- Install new hydro pump belt by positioning belt on sheaves. Put belt onto right hand hydrostat sheave last.
- 6. Replace long mower belt on mower clutch sheave. See *Replacing Mower Belts* on page 27.



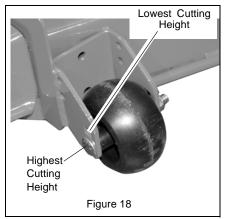
MOWER DECKS

Anti-scalp Roller Adjustment

The anti-scalp rollers are set at the factory for typical mowing height, but can be adjusted for high or low cutting conditions (Figure 18). Anti-Scalp rollers are intended to prevent lawn scalping, not to control cutting height. For a very high cutting height, set the antiscalp rollers in the lowest position on the bracket.

For a very low cutting height, set the antiscalp rollers in the highest position on the bracket.

NOTE: There are four anti-scalp rollers on the outside of the mower deck and four anti-scalp rollers on the inside of the mower deck. Make sure all anti-scalp rollers are set at the same height.



Removing the Mower Deck

1. Remove PTO belt (See Replacing Mower Belts on page 27).



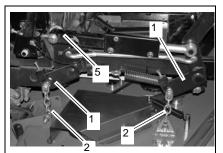
WARNING: AVOID INJURY. Mower lift arms and mower lift pedal could cause severe injury if they are not locked before removing the mower deck. ALWAYS lock mower deck lift before removing the deck.

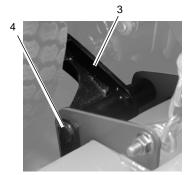
2. Lock the mower deck in the service position.

Push the mower lift pedal forward between cutting height number 4 and number 5 to align the holes in the deck lift shaft and the deck lift cover. Insert the cutting height pin in the holes on the side of the deck lift cover so it passes all the way through the deck lift cover and shaft. **IMPORTANT:** The mower lift arms are not locked unless the cutting height adjustment pin passes all the way through both the deck lift cover and shaft.

NOTE: Support the mower deck on blocks or jack stands before disconnecting link chains from mower lift arms to prevent the deck from falling.

- Remove link chains from mower lift arms. Note hole location on mower lift arms for replacement.
- 4. Remove the mower mounting pins connecting the mower mounting arms to the deck.
- 5. Slide mower deck out from under unit.





- 1. Mower Lift Arm
- 2. Link Chain
- 3. Mower Mounting Arm
- 4. Mower Mounting Pin
- 5. Mower Lift Arms Locked

Figure 19

Installing the Mower Deck (Figure 19)

- 1. Slide mower deck under unit.
- 2. Connect mower mounting arms to deck with mower mounting pins.
- Install link chains on the mower lift arms in the same holes they were removed from.
- 4. Install PTO mower belt (See *Replacing Mower Belts* on page 27).

5. Level mower deck (See *Leveling the Mower Deck* on page 30).

Leveling the Mower Deck

These adjustments should be made on a level surface with the tires inflated to the correct air pressure.

Check Blade Level and Pitch

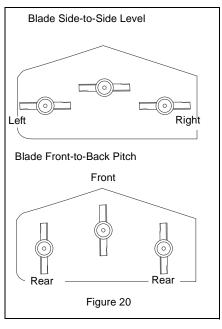
- 1. Raise mower deck to a 3" (7.62 cm) cutting height.
- 2. Shut off engine. Engage parking brake. Remove the ignition key.

NOTE: Place blocks under the bottom edge of the deck, not under the reinforcement bar welded along deck face.

- 3. Place blocks at each corner of the deck to support the weight of the deck.
- 4. Turn the blades so the blade ends point left to right across the width of the deck.
- 5. Measure the distance between the ground and cutting edge of the blade on the left blade (Left position in Figure 20) and on the right blade (Right position in Figure 20). Distances should be within 3/16" (4.7 mm). If they are not, raise the low side of the deck using the height adjusters on the deck lift brackets (see Figure 21).
- 6. After deck is level side to side, check the deck front to back pitch.
- 7. Turn the blades so the blade ends point front to back as shown in Figure 20.
- Measure the distance between the ground and the cutting edge of the middle blade at the front of the deck (Front position in Figure 20) and between the ground the cutting edge of the left and right blades at the rear of the deck (Rear position in Figure 20).
- 9. The cutting edge at the front of the deck (Front position in Figure 20) should be 1/8" (3.18 mm) lower than the cutting edges at the rear of the deck (Rear position in Figure 20).
- 10. If measurements are out of range, raise the low side of the deck using the height adjusters on the deck lift brackets (see Figure 21). Be sure to raise the deck evenly to keep the deck level side to side.

NOTE: Pitching the front of the blades lower than the rear provides a balance between cut quality and the power needed to cut grass. Certain cutting conditions require the deck to be pitched with the rear of the blades lower than the front. Heeling the deck this way requires more engine power but can provide better cut quality.

11. Remove the blocks from under the deck.



Adjust Blade Height

Level and pitch the mower with the height adjusters on each deck lift bracket (Figure 21).

Loosen the jam nut on the deck lift bracket bolt about 1/4 turn to reduce clamp load on the height adjusters.

Loosen the jam nut on the deck adjuster bolt and then turn the bolt clockwise to raise the deck or counterclockwise to lower the deck. Tighten both jam nuts.

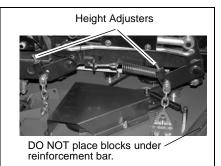


Figure 21

CLUTCH ADJUSTMENT

If clutch fails to engage or disengage properly or begins to make abnormal noise, check the air gap adjustment at the three inspection slots.

To check:

- 1. Stop engine, remove key and wait for all hot parts to cool.
- Measure the air gap between the armature and the rotor.
 Minimum: A .016" feeler gauge should slide between armature and rotor with slight contact.

Maximum: A .020" feeler gauge should slide between armature and rotor with slight contact.

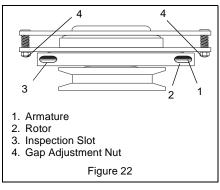
3. Repeat for each inspection slot.

To adjust:

- 1. If necessary, loosen gap adjustment nuts until a .016" feeler gauge fits between armature and rotor.
- 2. Slide a .020" feeler gauge between armature and rotor.
- 3. Tighten gap adjustment nut until there is slight contact on feeler gauge.
- 4. Repeat steps 1 3 at each inspection slot.

NOTE: Adjust air gap as evenly as possible.

- 5. Start unit, engage and disengage PTO.
- 6. Shut off unit.
- 7. Recheck air gap and adjust if needed.



STORAGE



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

SHORT TERM

NEVER spray unit with high-pressure water or store unit outdoors.

Inspect unit for visible signs of wear, breakage or damage.

Keep all nuts, bolts and screws properly tightened and know unit is in safe working condition.

Store unit in a cool, dry protected area.

LONG TERM

Clean unit thoroughly with mild soap and low pressure water and lubricate (See *Lubricate Unit* on page 24 in *Maintenance*). Touch up all scratched painted surfaces.

Remove weight from wheels by putting blocks under frame or axle.

When storing unit for extended periods of time, remove all fuel from tank and carburetor (run dry). Refer to Engine Manual.

Clean and charge the battery. Charge battery every three to four weeks when storing unit.

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:

- 1. Add fuel stabilizer according to manufacturers' instructions.
- 2. 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.

To Take the Unit Out of Storage

- 1. Refer to the engine service manual to prepare the engine for service.
- 2. Put fresh, clean fuel in the fuel tank.
- 3. Begin the maintenance schedule.
- 4. Charge and install the battery.

| Α | CCESSORIES |
|----------|------------------------------------|
| Part No. | Description |
| 79104500 | Mulching Kit 48" Decks |
| 79213500 | Mulching Kit 52" Decks |
| 79213600 | Mulching Kit 60" Decks |
| 79206700 | Striper Kit |
| 79104200 | Discharge Cover Kit 48" Decks |
| 79104300 | Discharge Cover Kit 52" Decks |
| 79213400 | Discharge Cover Kit 60" Decks |
| 79202700 | Headlight Kit |
| 79104900 | Bagger Adapter Kit 60" Decks |
| 79104800 | Bagger Adapter Kit 52" Decks |
| 79104700 | Bagger Adapter Kit 48" Decks |
| 89100300 | HD Series Bagger |
| 71508900 | Hub Cap Set (2) Ariens 10" |
| 79102300 | Kit, Universal Flextend |
| 79103600 | Kit, Hex Striper |
| 79103800 | Kit, Sunshade |
| 79210300 | Kit, OC Chute Baffle 44", 48", 52" |
| 79210500 | Kit, OC Chute Baffle 60" |
| 79210600 | Wheel Covers Set (2) 6" |
| 79104000 | Vacuum Baffle Kit 48" |
| 79101200 | Vacuum Baffle Kit 52" |
| 79208600 | Vacuum Baffle Kit 60" |

| SERVICE PARTS | | | |
|---------------|-----|-------------------------------|--|
| Part No. | Qty | Description | |
| 21541500 | 1 | Fuel Filter (991085, 086) | |
| 21542700 | 1 | Air Filter (991085, 086) | |
| 21545100 | 2 | Hydraulic Oil Filter | |
| 21541700 | 2 | Spark Plug (991085, 086) | |
| 07200025 | 1 | PTO Belt – 48" Decks | |
| 07200026 | 1 | PTO Belt – 52" Decks | |
| 07200028 | 1 | PTO Belt – 60" Decks | |
| 07211500 | 1 | Traction (Hydro Pump) Belt | |
| 00450200 | 1 | Blade – 48" Decks | |
| 03253800 | 1 | Blade – 52" Decks | |
| 03253900 | 1 | Blade – 60" Decks | |

| SPEC | | S | |
|---|---------------------|--------------------------------------|--------------|
| Model Number | 991085 | 991086 | 991087 |
| Model | Max Zoom 48 | Max Zoom 52 | Max Zoom 60 |
| Engine | | Kohler | |
| Engine Displacement – in ³ (cc) | | 44.2 (725) | |
| Governed RPM (May be different | | 3.600 ± 75 | |
| from maximum RPM) | | -, | |
| Liquid or Air Cooled | | Air | |
| Speed | _ | | |
| Forward Maximum – mph (km/h) | | 8 (12.9) | |
| Reverse Maximum – mph (km/h) | | 4 (6.4) | |
| Turning Radius | | Zero | |
| Brakes | | Hydro – Parking | |
| Electrical | | | |
| Starter | | Electric | |
| Battery | 12-Volt | Maintenance Free | U1-250 |
| Power Take-Off | Elec | tric PTO Clutch/B | rake |
| Fuel | | | |
| Fuel Type | Re | fer to Engine Man | ual |
| Fuel Tank Capacity – gal. (L) | | 6.5 (24.6) | |
| Transmission | | | |
| Туре | Hydrostatic Drive | | |
| Transmission Oil | Use 20W- | 50 engine oil with classification | an SL API |
| Hydraulic Oil Filter | | Yes | |
| Size and Weight | | | |
| Length – in. (cm) | 71.5 (181.6) | 74.5 (| 189.2) |
| Width (With Chute Up) – in. (cm) | 50 (127) | 55.5 (141) | 62.8 (159.5) |
| Height – in. (cm) | | 42 (106) | , , |
| Weight – Ibs (kg) | , , , | | 853 (386.9) |
| Tires | , , | , , | , |
| Front Tire Size – in. | 13 x 5-6 | | |
| Rear Tire Size – in. | 20 x 10-10 | | |
| Front Tire Pressure – psi (kPa) | 20 – 25 (138 –172) | | |
| Rear Tire Pressure – psi (kPa) | 15 - 18 (103 - 124) | | |
| Mower Deck | L | | |
| Mower Deck Lift | | | |
| | | Mechanical | |
| | 48 (121.9) | Mechanical 52 (132.1) | 60 (152.4) |
| Cutting Width – in. (cm) Cutting Height – in. (cm) | 48 (121.9) | | 60 (152.4) |



Consumer Mowing Equipment Limited Warranty

Ariens Company (Ariens) warrants to the **original purchaser** that Ariens, Gravely and Countax brand lawn and garden consumer products purchased on or after 1/1/2012 will be free from defects in material and workmanship for the time period noted in the chart below. Equipment put to personal use around a single household or residence is considered "Consumer Use"; equipment put to any business use (agricultural, commercial, or industrial) or used at multiple locations is considered "Commercial Use." If any product is rented or leased, then the duration of these warranties shall be 90 days after the date of purchase.

An authorized Ariens dealer (Ariens brand products), Gravely dealer (Gravely brand products), or Countax dealer (Countax 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.

| Warranty Code | Product Group | Warranty Period Consumer Use | Warranty Period Commercial Use |
|------------------|--|---------------------------------|-----------------------------------|
| HA | Zoom & ZT Zero-Turn Riders; AMP™ Rider | 3 Years | 90 Days |
| HB | Max Zoom & ZT HD Zero-Turn Riders | 3 Years | 1 Year |
| HC | Tractors, "961" Series Walk-Behind Mowers | 2 Years | 90 Days |
| HD | Classic LM Series Mowers; Wide Area Walk Mowers | 3 Years | 90 Days |
| N/A | Service (replacement) Parts | 90 Days (no labor) | 90 Days (no labor) |

Special Extensions

The chart below details special extensions to this warranty:

| Warranty Code | Warranty Exception | Warranty Period | Use | Detail |
|------------------|---|--------------------|----------|--|
| | Mower Deck Shell on Zero-Turn Riders | 5 Years | Consumer | 3 years parts and labor Additional 2 years parts only |
| HA, HB | Main Frame on Zero-Turn Riders | 5 Years | Consumer | 3 years parts and labor Additional 2 years parts only |
| HA | Batteries for AMP™ Rider | 2 Years | Consumer | 100% first year; prorated second year |

Exceptions and Limitations

The chart below details special exceptions to this warranty:

| Warranty Code | Warranty Exception | Warranty Period | Use | Detail |
|------------------|---|--|------------|---|
| All | Batteries | 1 Year | Consumer | Prorated |
| All | Belts, Muffler, Tires | None | Commercial | These components are not covered when used commercially. |
| All | Cloth, Plastic, and Rubber Components (Including Belts and Cables) | Maximum 2 Years | All | Warranty is limited to 2 years for consumer use. Except as noted above, these components are covered for defect, not for wear. |
| All | Engines | See Engine Manufacturer's Warranty | All | Engines are covered by engine manufacturer's warranty. Refer to engine manufacturer's warranty statement. |

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, www.gravely.com, www.countax.com.

Ariens Company

To obtain warranty service, the original purchaser must:

- Perform the maintenance and adjustments explained in the owner's manual.
- Promptly notify Ariens or an authorized Ariens, Gravely or Countax 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 Ariens, Gravely or Countax service representative.

To Find an Authorized Service Representative:

| In the U.S. and Canada: | | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| Use the dealer locator on our websites: www.ariens.com • www.gravely.com | | | | | | | | |
| Or contact us by mail or by phone: | | | | | | | | |
| In the U.S., Canada, Mexico, Caribbean, Central and South America: | In Europe, Asia, Africa or the Middle East: | In Australia or New Zealand: | | | | | | |
| Ariens Company 655 W. Ryan Street Brillion, WI 54110 Phone: (920) 756 - 4688 www.ariens.com | Countax Ltd, Countax House Great Haseley, Oxfordshire, OX44 7PF Phone: 0800 597 7777 www.countax.com | Ariens Company Building 2 6 Wedgewood Rd. Hallam, Victoria 3803 Australia Phone: (03) 9796 4244 1800 335 489 www.ariens.com.au | | | | | | |

Exclusions – Items Not Covered by This Warranty

- Parts that are not genuine Ariens, Gravely or Countax service parts are not covered by this warranty and may void the warranty.
- Damages resulting from the installation or use of any part, accessory, or attachment which is not approved by the Ariens Company for use with product(s) identified herein 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, brake shoes, skid shoes, scraper blades, shear bolts, mower blades, mower
 vanes, brushes, headlights, light bulbs, knives, cutters.
- Any misuse, alteration, improper assembly, improper adjustment, neglect, or accident which requires repair is not covered by this warranty.
- · 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. Ariens Company 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 Ariens Company dealer for warranty
 policies that govern within your country. Rights may vary from country to country and within any one
 country.

<u>Disclaimer</u>

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

AUSTRALIAN CONSUMER LAW

The following applies solely to warranties subject to Subsection 102(1) of the Australian Consumer Law: Our goods come with guarantees that cannot be excluded by the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods replaced or replaced if the goods fail to be of acceptable quality and failure does not amount to a major failure.

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 region to region.



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To Find an Authorized Service Representative:

| In the U.S. and Canada: | | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| Use the dealer locator on our websites: www.ariens.com • www.gravely.com | | | | | | | | |
| Or contact us by mail or by phone: | | | | | | | | |
| In the U.S., Canada, Mexico, Caribbean, Central and South America: | In Europe, Asia, Africa or the Middle East: | In Australia or New Zealand: | | | | | | |
| Ariens Company 655 W. Ryan Street Brillion, WI 54110 Phone: (920) 756 - 4688 www.ariens.com | Countax Ltd, Countax House Great Haseley, Oxfordshire, OX44 7PF Phone: 0800 597 7777 www.countax.com | Ariens Company Building 2 6 Wedgewood Rd. Hallam, Victoria 3803 Australia Phone: (03) 9796 4244 1800 335 489 www.ariens.com.au | | | | | | |

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- The following maintenance, service and replacement items are not covered by this warranty unless they
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 vanes, brushes, headlights, light bulbs, knives, cutters.
- Any misuse, alteration, improper assembly, improper adjustment, neglect, or accident which requires
 repair is not covered by this warranty.
- · Use of gasoline blends exceeding 10% ethanol voids any and all warranties.
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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 region to region.

Ariens Company



Ariens 655 West Ryan Street Brillion, WI 54110 920-756-4688 Fax 920-756-2407 www.ariens.com

A WARNING A

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

An **Ariens** Company Brand