

Walk Behind Lawn Mower

Owner/Operator Manual Manuel Du Propriétaire/Utilisateur



Gasoline containing up to 10% ethanol (E10) or up to 10% MTBE (methyl tertiary butyl ether) is acceptable for use in this machine.

The use of any gasoline exceeding 10% ethanol (E10) or 10% MTBE will void the product warranty.

Il est possible d'utiliser de l'essence contenant jusqu'à 10% d'éthanol (E10) ou 10% de MTBE (éther méthyl-tertiobutylique) sur cette machine.

L'utilisation d'une essence contenant plus de 10% d'éthanol (E10) ou de 10% de MTBE annulent la garantie.







(GB) ENGLISH



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INTRODUCTION

NON-ENGLISH MANUALS





Manuals in languages other than English may be obtained from your Dealer. Visit your dealer or www.ariens.com for a list of languages available for your equipment. Visit your dealer or www.ariens.com for a list of languages available for your

equipment.

Manuals printed in languages other than English are also available as a free download on our website:

http://www.ariens.com

MANUALES EN IDIOMAS DIFERENTES DEL INGLES





Puede obtener manuales en idiomas diferentes del inglés en su distribuidor. Visite a su distribuidor o vaya a www.ariens.eu para obtener una lista de idiomas disponibles para su equipo.

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También puede imprimir manuales en idiomas diferentes del inglés descargándolos gratuitamente de nuestra página Web:

http://www.ariens.com

MANUELS NON ANGLAIS





Des manuels dans différentes langues sont disponibles chez votre revendeur. Rendez-vous chez votre revendeur ou allez sur le site ariens.com pour consulter la liste des langues disponibles pour votre équipement.

Rendez-vous chez votre revendeur ou allez sur le site www.ariens.com pour consulter la liste des langues disponibles pour votre équipement. Les manuels imprimés dans des langues différentes de l'anglais sont également disponibles en téléchargement gratuit sur notre site Web:

http://www.ariens.com

THE MANUAL

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

All reference to left, right, front, or rear are given from the operator's position, facing the direction of forward travel.

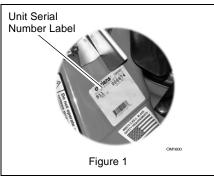
ENGINE MANUAL

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 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 also printed on a serial number label, located on the frame of your unit (Figure 1).



 Record Unit Model and Serial numbers here:

 Record Engine Model & 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. Replacing any part on this vehicle with anything other than an Ariens authorized replacement part may adversely affect the performance, durability, or 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. To locate your nearest Ariens Dealer, go to www.Ariens.com on the internet.

DEALER DELIVERY

Dealer should:

- Check that all assembly and adjustments have been properly completed.
- 2. Fill out Original Purchaser Registration Card and return the card to Ariens.
- 3. Explain Ariens Limited Warranty Policy.
- Explain recommended lubrication and maintenance. Advise customer on adjustments. Remind customer to change oil in 4 cycle engine crankcase after first five (5) hours of operation.
- Instruct customer on controls and operation of unit. Discuss and emphasize the Safety Rules. Give customer Owner/Operator, Parts, and Engine manuals. Advise customer to thoroughly read and understand them.

DISCLAIMER

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

Stop unit and engine, remove key (if equipped) 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:



Personal Safety Is Involved!

Become Alert!

Attention!

Obey The Message!

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

Read and understand all safety messages.



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



WARNING: POTENTIALLY HAZARDOUS SITUATION! If not avoided, COULD 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.

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.

REQUIRED OPERATOR TRAINING

Original purchaser of this unit was instructed by the seller on safe and proper operation. If anyone other than the original purchaser will use the unit, ALWAYS provide this manual and any needed safety training before operation.

SAFETY DECALS AND LOCATIONS

ALWAYS replace missing or damaged safety decals. Refer to Figure 2 for safety decal locations.



1. 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.



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



Keep safety devices (guards, shields, switches, etc.) in place and working.

- Go across slopes, not up and down.
- Look down and behind before and while moving backward.
- Do not park on a slope unless chocked or blocked.
- Do not allow operation of machine by untrained personnel.

2. DANGER!

KEEP HANDS AND FEET AWAY

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

3. CAUTION!

- Bag is subject to wear and deterioration.
- Check bag frequently, replace when necessary.
- Use original bag to comply with safety specifications.

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 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.

Learn applicable rules and laws in your area, including those that may restrict the age of the operator.

Read, understand and follow all safety practices in Owner/Operator Manual before beginning assembly. Failure to follow instructions could result in personal injury and/or damage to unit.

If the operator or the mechanic cannot read the manual, it is the owner's responsibility to explain it to them. Only the user can prevent and is responsible for accidents or injuries occurring to themselves, other people or property. ALWAYS remove key (if equipped) and disconnect wire from spark plug before assembly. Unintentional engine start up can cause death or serious injury.

Complete a walk around inspection of unit and work area to understand:

- work area
- your unit
- · all safety decals.

Clear work area of stones, sticks, wire and foreign objects which might be picked up and thrown. Tall grass can hide obstacles.

Know the work area. Stay alert for holes, rocks, rough terrain and hidden hazards.

Keep away from drop-offs, ditches, or embankments that could cause operator to lose footing or control of unit.

ALWAYS be aware of traffic when operating along streets or curbs.

Keep work area clear of all persons, children and pets.

Keep children out of the work area and under the watchful care of a responsible adult.

ALWAYS operate unit when there is good visibility and light.

DO NOT mow wet grass.

ALWAYS be sure of your footing. Keep a firm hold on handlebar, Walk, NEVER run.

Engine/blade control feature on mower stops engine and blade within 3 seconds whenever operator releases handlebar. Check this feature frequently. If feature fails to operate, disconnect spark plug wire and adjust or have it repaired before using unit.

Only trained adults may operate or service unit. Training includes actual operation. The owner is responsible for training users.

NEVER operate after or during the use of medication, drugs or alcohol. Unit requires complete and unimpaired attention.

NEVER allow children to use or service mower.

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

ALWAYS keep hands away from pinch points. Fumes from engine exhaust can cause death or serious injury. DO NOT run engine in an enclosed area.

ALWAYS protect eyes, face, and body with adequate safety gear and protective clothes. Wear sturdy footwear, gloves, a hard hat and safety goggles or safety glasses with side shields while operating mower.

Wear appropriate hearing protection.

NEVER operate mower barefoot or when wearing open sandals or canvas shoes.

NEVER wear loose clothes, long hair or jewelry that may get caught in rotating parts.

ALWAYS stand clear of discharge when operating unit.

NEVER direct discharge toward bystanders.

Operator is responsible for bystander safety.

DO NOT touch hot parts. Allow parts to cool.

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

Read, understand, and follow all instructions in the manual and on the machine before starting. Understand:

- · How to operate all controls
- · The functions of all controls
- How to STOP in an emergency.

DO NOT attempt to start your engine until you know what the controls do and how they work.

DO NOT tilt mower when starting it.

Keep feet away when starting engine.

DO NOT start the engine or operate mower without side discharge cover or side discharge deflector installed.

Never leave a running unit unattended.

Take all possible precautions when leaving unit unattended.

ALWAYS shut off engine, remove key (electric start models) and disconnect spark plug wire to prevent accidental starting or unauthorized use.

Stop engine if anyone enters the work area. NEVER attempt to make any adjustments to unit while engine is running (except where specifically recommended). Stop engine, remove key (electric start models) and wait for all moving parts to stop before servicing.

DO NOT make cutting height wheel adjustments while the engine is running.

If you strike an object, or if equipment vibrates abnormally, stop engine at once, wait for moving parts to stop and disconnect wire from spark plug. Repair any damage before restarting unit.

Keep rear door closed when engine is running unless the grass bag is in place.

Stop engine before removing and emptying grass bag.

When mulching or bagging, ALWAYS install discharge cover.

When side discharging, ALWAYS install side discharge deflector.

ALWAYS shut off engine, allow blade to stop and disconnect spark plug wire before clearing clogs or cleaning unit.

Check grass bag for wear, damage, and/or deterioration. Replace only with Ariens original equipment replacement parts for safety.

To reduce fire hazard and overheating, keep equipment free of grass, leaves, debris or excessive lubricants.

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

DO NOT mow at too fast a rate. DO NOT change engine governor setting or overspeed the engine.

Do not operate mower on gravel or loose material such as sand. Stop mower when crossing drives, walks, or roads to prevent damage or injury from thrown objects.

DO NOT pull mower backwards unless absolutely necessary. Look down and back, especially for small children, before and while moving backwards.

On self-propelled models, releasing wheel drive control must stop mower's forward movement. If this feature fails to operate, disconnect spark plug wire and repair before using unit.

On self-propelled models, wheel drive must be disengaged when starting engine.

DO NOT operate on steep slopes.

NEVER leave unit unattended on a slope. Chock wheels if parking on a slope.

Mow across the face of slopes, never up and down. Be especially cautious when changing direction on slopes.

This product is equipped with an internal combustion engine. DO NOT use on or near any unimproved, forest or brush covered land unless the exhaust system is equipped with a spark arrestor meeting applicable local, state or federal laws. A spark arrestor, if used, must be maintained in effective working order by the operator. See your Ariens Dealer or engine manufacturer's service center.

Emission Control System Certification Label

NOTE: 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.

Fuel is highly flammable and its vapors can explode. ONLY use approved fuel containers.

- NO Smoking!
- NO Sparks!
- NO Flames!
- Allow engine to cool before filling fuel tank.

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.

Check fuel supply before starting engine.

DO NOT fill gasoline tank indoors, when engine is running, or while engine is hot.

Allow engine to cool several minutes before removing fuel cap.

DO NOT overfill. Allow about 1/4" (6 mm) of tank space for fuel expansion.

Replace gasoline tank cap securely and clean any spilled fuel before starting engine. If fuel is spilled on clothing, change clothing immediately.

NEVER store fuel inside where there is an open flame, such as a water heater.

ALWAYS drain fuel outdoors away from ignition sources.

ALWAYS shut off engine, and remove key, and close fuel shutoff valve when transporting unit on a truck or trailer.

Avoid Electric Shock. DO NOT disconnect wire from spark plug while engine is running.

Do NOT put battery in fire or mutilate.

Explosive Gases!

NO flames, NO sparks, NO smoking, near battery.

Poisonous battery fluid contains sulfuric acid. Contact with skin, eyes or clothing can cause severe chemical burns.

ALWAYS wear safety glasses and protective gear near battery.

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.

Charge batteries in an open, well-ventilated area, away from spark and flames. Unplug charger before connecting or disconnecting battery. Wear protective clothing and use insulated tools.

Accidental engine start up can cause death or serious injury. Except where specifically recommended, ALWAYS stop engine, remove key (electric start models), wait for moving parts to stop, allow parts to cool and disconnect spark plug wire before inspecting, servicing, adjusting or repairing unit.

Keep mower free of grass, leaves, or other debris build-up.

Keep equipment in good condition.

Maintain or replace safety and instruction labels, as necessary.

Follow engine manufacturer's safety instruction when servicing engine.

Check all hardware at regular intervals, especially blade attachment bolts. Keep all hardware properly tightened.

An extension spring, when extended, stores energy and can be dangerous. Always use tools specifically designed for installing or removing an extension spring. Always compress or extend springs slowly.

Before tipping unit, remove fuel and battery (if equipped).

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

Ensure all wheel blocks, jack stands and tie downs will support unit during maintenance.

Replace worn-out mufflers immediately. Continued use could result in fire or explosion.

Sharp edges can cut or amputate fingers or a hand. Wrap blade or wear sturdy gloves to service.

Only replace blades. NEVER straighten or weld blades.

Use only replacement parts designed for your unit. See your Ariens Dealer.

Allow engine to cool before storing in any enclosure.

ALWAYS clean unit before extended storage. See engine manual for proper storage.

DO NOT store unit inside a building with fuel in the fuel tank where any ignition sources are present.

Use only accessories which have been approved by Ariens and are properly installed.

Use only accessories or attachments that are designed for your unit and that can be used safely on your terrain.

Check attachments frequently and replace worn or damaged components with manufacturer's recommended parts.

ASSEMBLY



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

CARTON CONTENTS



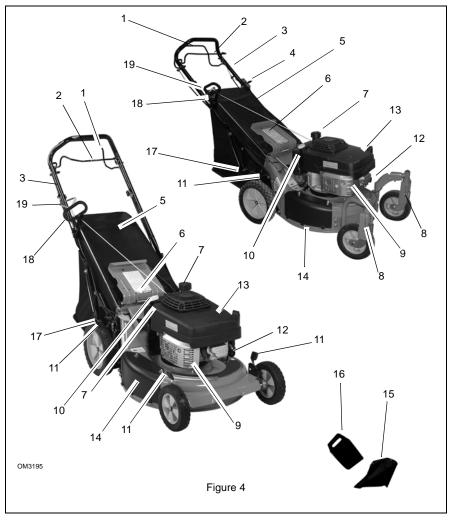
ASSEMBLY

1. Unfold and adjust handlebar. See HANDLEBAR HEIGHT on page 20.

NOTE: DO NOT bend the speed control rod (if equipped) when unfolding the handlebars.

- 2. Fill engine crankcase with oil. See engine manual.
- 3. Set-up mower for bagging, side discharge or mulching. See *MOWER SET-UP* on page 14.
- 4. Fill fuel tank. See *FILLING THE FUEL TANK* on page 14.
- 5. Connect spark plug wire.
- 6. Check the engine/blade control feature. Try starting the engine without the engine/blade control held against the handlebar. Engine must not start. If engine starts, stop engine and bring the unit to your dealer for adjustment or repair.

CONTROLS AND FEATURES



- 1. Engine/Blade Control
- 2. Wheel Drive Control (911193, 194)
- 3. Adjustable and Folding Handlebars
- 4. Swivel Wheel Lock (911194)
- 5. Grass Bag
- 6. Rear Door
- 7. Fuel Tank and Cap
- 8. Height Adjustment Pins (911194)
- 9. Muffler and Muffler Guard
- 10. Oil Fill/Dipstick
- 11. Cutting Height Levers (2 Rear Wheel Adjusters, 2 Front Wheel Adjusters)

- 12. Primer Bulb (911192, 193, 194)
- 13. Air Filter
- 14. Side Discharge Cover
- 15. Side Discharge Deflector
- 16. Mulchmaster™ Plug
- 17. Handlebar Adjustment Holes
- 18. Recoil Starter Handle
- 19. Speed Control Rod (911193, 194)

OPERATION

CONTROLS AND FEATURES

See Figure 4 for locations.



WARNING: Improper operation can lead to injury. Learn what the controls do and how they work. Thoroughly read and understand entire Operator Manual.



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

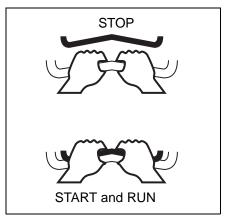
Engine/Blade Control



CAUTION: Check function of Engine/Blade Control regularly. Improper function of control could cause injury.

The engine/blade control must be held against the handlebar to start the engine and blade.

Engine/blade control feature on mower stops engine and blade within 3 seconds whenever operator releases handlebar. Check this feature frequently. If feature fails to operate, disconnect spark plug wire and adjust or have it repaired before using unit.



Handlebar

Adjust handlebar to a safe and comfortable height. See *HANDLEBAR HEIGHT* on page 20.

Recoil Starter Handle

When pulled, handle will turn engine over.

CUTTING HEIGHT ADJUSTMENT



DANGER: Avoid injury from rotating blade.
ALWAYS shut off engine before adjusting cutting height.

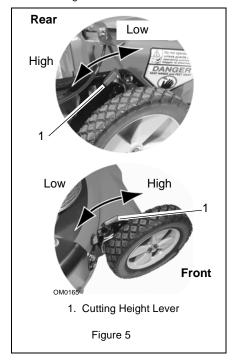


CAUTION: On self-propelled models, both rear wheels must be set at same height or traction drive may not work properly.

Standard Models

To change cutting height, move cutting height levers one notch at a time on each wheel to set desired height (Figure 5).

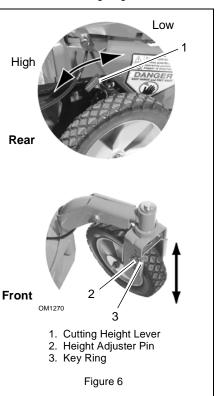
NOTE: Each wheel on mower must be set at the same height for a level cut.



Swivel Wheel Models (911194)

To change front wheel cutting height, insert height adjuster pin into the holes that match the desired cutting height and fasten with key ring (Figure 6).

To change rear wheel cutting height, move cutting height levers one notch at a time to set the desired cutting height.



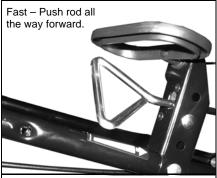
OPTIONAL CONTROLS

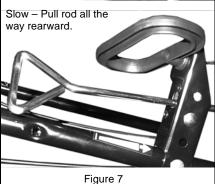
Primer Bulb (911192, 193, 194)

Push the primer bulb in to add fuel for easier engine start.

Speed Control (self-propelled models)

Speed control rod changes the mower's forward travel speeds.





Start mowing slowly and use speed control rod to gradually increase speed to a safe, comfortable walking pace.

Speed control rod should hold the desired speed. If not, adjust speed control bell crank. (See SPEED CONTROL BELL CRANK on page 23.)

Wheel Drive Control (self-propelled models)



CAUTION: Unit will move forward at engine start if wheel drive control is engaged. ALWAYS release wheel drive control before starting unit.

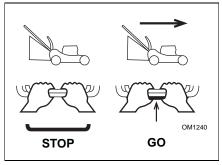
NOTE: Engine must be running for wheel drive to propel unit.

To drive forward:

Slowly squeeze and hold wheel drive control against handlebar.

To stop:

Release wheel drive control.



Swivel Wheel Lock (911194)



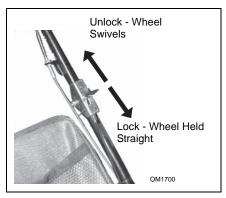
CAUTION: Avoid loss of control. Lock swivel wheels when mowing on a slope or hill. Do not mow on steep slopes.

To hold wheel straight:

- 1. Push swivel wheel lock forward.
- 2. Push unit forward until wheel locks in place.

To allow wheel to swivel:

1. Pull swivel wheel lock back.



FILLING THE FUEL TANK

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 15% MTBE (methyl tertiary butyl ether) is acceptable.
- Use of any gasoline other than those approved above may 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.

To add fuel to fuel tank:

- 1. Put unit in open or well-ventilated area.
- 2. Stop engine and allow to cool.
- 3. Clean fuel cap and surrounding area.
- 4. Remove cap.

IMPORTANT: See engine manual for correct type and grade of fuel.

- Fill fuel tank. (see SPECIFICATIONS on page 27page 27 for tank capacity.) Do not overfill.
- 6. Replace fuel cap and tighten.
- 7. ALWAYS clean any spilled fuel.

MOWER SET-UP



CAUTION: DO NOT operate mower unless either side discharge cover or side discharge deflector is installed. Thrown objects may cause damage or injury. Never operate unit with rear door open unless grass bag is in place.



CAUTION: If clog or obstruction prevents grass flow, release engine/blade control and disconnect spark plug wire before attempting to clear away any clogs.

To Bag



CAUTION: Check grass bag frequently for wear or deterioration. Replace worn or damaged bag with Ariens original equipment replacement bag only.

- 1. Shut off unit.
- 2. Install side discharge cover.



Side Discharge Cover

Figure 8

- 3. Lift rear door.
- 4. Hook grass bag frame on mounting flange.
- Lower rear door.

If necessary, lift rear of grass bag frame to lock in position.

There should be no openings between bag and mounting surface after installing bag. If necessary, clear debris from bag mounting surface.

Grass Bag Removal

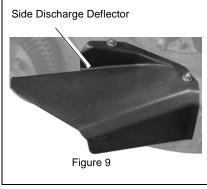
- 1. Shut off unit.
- 2. Lift rear door.
- 3. Use handle to lift bag off mounting flange.
- 4. Close rear door.

NOTE: Empty grass bag and clean mower pan after each use. DO NOT allow grass clumps or a grass coating to collect inside of grass bag or mower pan. Remove grass bag from mower, wash bag with hose and allow to

To Side Discharge

- 1. Shut off unit.
- 2. Remove grass bag.
- 3. Install Mulchmaster plug (see below).

- 4. Remove side discharge cover and keep hardware.
- 5. Attach side discharge deflector to studs on mower. Make sure deflector covers discharge opening.
- 6. Secure with cover hardware from step 4.

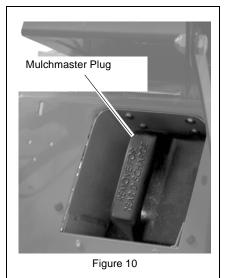


To Mulch

- 1. Shut off unit.
- 2. Remove grass bag and install side discharge cover.
- 3. Open rear door and insert Mulchmaster plug with the beveled face to the left.
- 4. Close rear door.

NOTE: Rear door must close flush.

NOTE: For maximum mulching performance. install the Mulchmaster Mulching Kit. See Accessories.



EMERGENCY STOPPING

To stop the mower in an emergency:

- 1. Release the engine/blade control.
- Release the wheel drive control (selfpropelled models).
- 3. Allow all moving parts to stop before leaving operator's position.

STARTING AND SHUT OFF



WARNING: Improper operation can lead to injury. Learn what the controls do and how they work. Thoroughly read and understand entire Operator Manual.

See Figure 4 for all Controls and Features.

NOTE: Start engine on a level surface that is free of debris.

Manual Start

- Check each item under Before Each Use in the MAINTENANCE SCHEDULE on page 17.
- 2. For engines with a primer, push primer bulb 2 or 3 times for a cold engine.

NOTE: It is unnecessary to prime or choke a warm engine.

- For engines with a throttle, place throttle control in the choke position. Once the engine has started, place throttle in the high speed detent.
- 4. With engine/blade control held against the handlebar, grasp starter handle and pull rope slowly until it pulls harder. This is the compression stroke. Let rope rewind slowly.
- Pull rope with rapid continuous full arm stroke to start engine. Allow rope to rewind slowly.

IMPORTANT: DO NOT let starter handle snap against bracket.

 Repeat steps 4 and 5 until engine starts. (If engine does not start, see TROUBLESHOOTING on page 25.)

Shut Off

- Release wheel drive control and allow unit to stop completely (self-propelled models).
- 2. Release engine/blade control.

Mowing Tips

Cut grass when it is dry.

Keep mower blades sharp.

Do not set cutting height too low. For tall grass, mow twice.

Do not mow too fast.

Mow with engine at full throttle. Discharge clippings into areas already cut.

Vary cutting pattern with each mowing.

NOTE: To prevent dirt and grass from collecting on mower pan, avoid operating over bare ground with only patches of grass.

Mulching Tips

For best mulching performance, cut no more than 1 inch (2.54 cm) of grass per cutting.

MAINTENANCE



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

Ariens Dealers will provide any service, parts or adjustments which may be required to keep your unit operating at peak efficiency. Should engine require service, contact an Ariens Dealer or an authorized engine manufacturer's service center.

MAINTENANCE SCHEDULE

NOTE: Some working conditions (heavy loads, high ambient temperatures, dusty conditions, or airborne debris) may require more frequent service.

See engine manual for further maintenance and troubleshooting information.

SCHEDULE				
Service Performed	Before Each Use	25 hrs	50 hrs	100 hrs
Check Engine/Blade Control	•			
Check Wheel Drive Control	•			
Check Grass Bag	•			
Clean Unit	•			
Check Engine Oil	•			
Check Mower Blade	•			
Check Drive Belt	•			
Check Fasteners	•			
Check Air Cleaner		•		•
Change Engine Oil		•	•*	
Change Engine Oil Filter				•
General Lubrication		•		
Check Spark Plug				•
Check Engine Cooling	•			•
Check Muffler				•

MAINTENANCE

CHECK ENGINE/BLADE CONTROL

The engine and blade must stop within 3 seconds after releasing the control. If the engine and blade continue to run, adjust or repair control immediately.

^{*} After first 5 Hours of operation.

CHECK WHEEL DRIVE CONTROL

(Self-Propelled Models)

The unit must stop quickly and completely when the control is released. Adjust or repair if necessary. See WHEEL DRIVE CONTROL ADJUSTMENT on page 22.

CHECK GRASS BAG

Check grass bag frequently for wear or deterioration. Replace worn or damaged bag with an Ariens original equipment replacement bag only.

CLEAN UNIT

Before each use clean unit, muffler and engine surfaces of debris, oil or fuel spills to ensure proper cooling and prevent fires.

CHECK ENGINE OIL

IMPORTANT: Maintain proper oil level at all times or engine damage will result.

Check the level of the engine crankcase oil before each use.

Make sure engine is level when checking oil. See engine manual for instructions.

CHECK MOWER BLADE

See Figure 11.

Check blade mounting: blade must be secure and bolt torqued to 37.5 – 50 lbf-ft (51 – 68 N•m) (bolt should fully compress lock washer). Check blade for nicks and dull cutting edges. Sharpen if necessary.

Check blade for rounded or broken ends, thinned metal or other damage. Replace if necessary.

NOTE: Blades should be sharpened and balanced professionally. Contact your Ariens Dealer.

To remove blade:

- 1. Stop engine, wait for all moving parts to stop, and disconnect spark plug wire.
- 2. Block blade to prevent rotation.
- Remove bolt, lock washer, flat washer and blade from shaft.

To install blade:

- Replace blade, flat washer, lock washer and bolt on shaft.
- Torque bolt to 37.5 50 lbf-ft (51 68 N•m) (bolt should fully compress lock washer).
- 3. Connect spark plug wire.

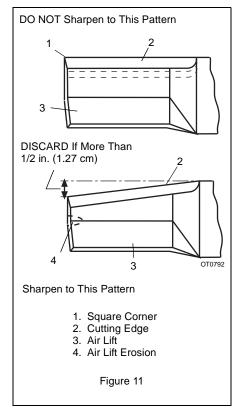
Sharpen the Mower Blades



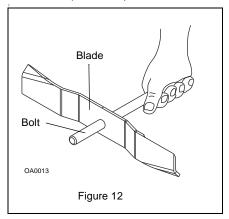
CAUTION: DO NOT sharpen mower blades while on unit. An imbalanced mower blade will cause excessive vibration and eventual damage to unit. Check mower blade balance before reinstalling blades.

NEVER weld or straighten bent blades.

- 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 (Figure 12).
- 4. Install mower blade on unit.
- 5. Tighten the bolts to a torque of 37.5 50 lbf-ft (51-68 N•m).



CHECK DRIVE BELT

(Self-Propelled Models)

Check drive belt and replace if worn or damaged. See *DRIVE BELT REPLACEMENT* on page 20.

CHECK FASTENERS

Check all fasteners for proper tightness. Pay special attention to blade hardware and all guards, shields and safety devices.

CHECK AIR CLEANER

See engine manual for specific information.

CHANGE ENGINE OIL

IMPORTANT: Change engine crankcase oil after first five (5) hours of operation. Then change oil after every 25 hours of operation.

Refer to engine manual for instructions and proper oil type.

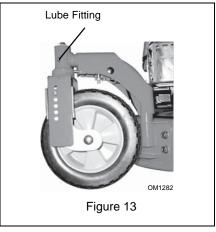
IMPORTANT: Proper oil level must be maintained at all times or engine damage will result. DO NOT overfill. Be sure engine is level when adding oil.

GENERAL LUBRICATION

Swivel Wheels (911194)

See Figure 13.

Use Mix Hi-Temp Grease or equivalent on the lube fittings. Order P/N: 00036800 - 3 pack of 3 oz. cartridges.



CHECK SPARK PLUG

Spark plug should be replaced every 100 hours of operation or each year.

NOTE: Loose spark plug wire terminals can cause sparking. Replace terminal if damaged.

CHECK ENGINE COOLING



WARNING: HOT SURFACES can cause death or serious injury. DO NOT TOUCH parts which are hot from operation. ALWAYS allow parts to cool.

To prevent overheating, air must circulate freely around the cooling fins, cylinder head and block.

Every 100 hours of operation or yearly (more often if conditions require) remove blower housing and clean cooling fins. See engine manual for instructions.

CHECK MUFFLER

Check muffler for debris, cracks, wear, or other damage.



CAUTION: Replace worn-out mufflers immediately. Continued use could result in fire or explosion.

SERVICE AND ADJUSTMENTS



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

SERVICE POSITION

Put unit into service position for easy access to underneath the deck.



CAUTION: Avoid fuel spills. Follow steps below to help prevent fuel spills. If fuel leaks into air cleaner, replace air cleaner. ALWAYS clean up any spilled fuel.

- 1. Place unit on a flat, level surface.
- 2. Disconnect spark plug wire.
- 3. Remove fuel cap, place a piece of plastic bag over the opening and tighten cap securely.
- 4. Tip unit *onto right side*. Make sure unit is secure and will not tip over.

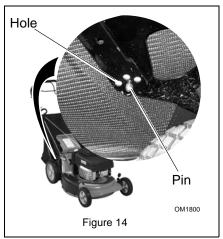
IMPORTANT: Remove plastic from fuel cap after unit is upright and service is complete.

HANDLEBAR HEIGHT

To adjust (Figure 14):

1. Place a hole at the bottom of the braces over the pins on the bracket.

NOTE: To fold handlebars flat for storage, pull the speed control rod (if equipped) all the way back, disconnect braces from support bracket, and fold handlebar forward. Do not bend speed control rod.



DRIVE BELT REPLACEMENT

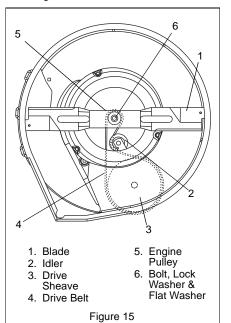
(Self-Propelled Models)

To remove drive belt:

- 1. Disconnect spark plug wire.
- Set the right rear wheel to its lowest cutting height, and the left rear wheel to the third cutting height. This position provides clearance between friction disc and drive sheave.
- 3. Remove belt from the idler, then the drive sheave, and finally, the engine pulley (Figure 15).
- 4. Pull belt through opening under mower pan and over blade.
- 5. Make sure the idler pulley turns and the idler arm moves freely.
- 6. Reinstall drive belt in reverse order.

IMPORTANT: Be sure the belt seats in sheave and pulley grooves with the idler touching the back (flat) side of belt.

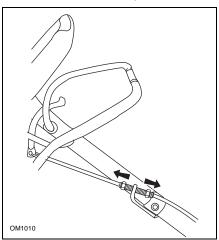
7. Adjust rear wheels to the same cutting height.



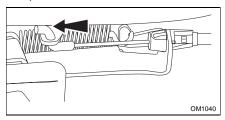
ENGINE/BLADE CONTROL ADJUSTMENT (911192, 193, 194)

To adjust engine/blade control:

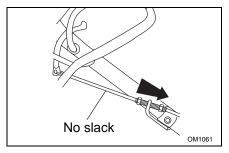
1. Loosen cable nuts away from bracket.



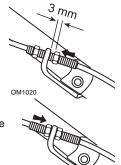
Squeeze z-bend bracket at engine end of cable toward front of unit and hold in place.



3. Pull cable down from bracket until there is no slack in cable.

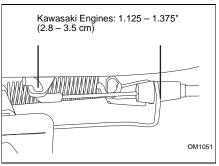


 Tighten lower cable nut to 3 mm below bracket. Release z-bend bracket.



 Tighten upper cable nut until bracket is secure between cable nuts.

Engage engine/blade control. Measure distance between middle of z-bend and cable bracket. Measurement should be as shown below.



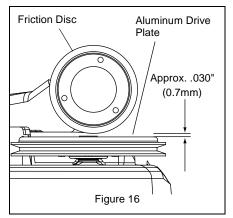
7. If correct measurement cannot be set, contact your local dealer.

WHEEL DRIVE CONTROL ADJUSTMENT

(Self-Propelled Models)

See Figure 16.

NOTE: When the wheel drive control is disengaged, the gap between the friction disc and the aluminum drive plate should be approximately .030" (.7mm). See Figure 16.



Check the adjustment with the engine off and with the engine on:

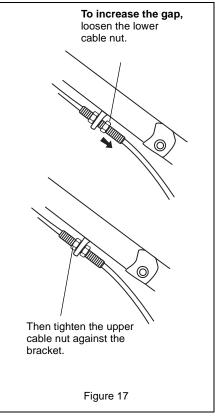
 With the engine off and the wheel drive control disengaged, push the mower forward in both fast and slow speed settings.

If the mower pushes freely, the gap between the friction disc and aluminum drive plate is sufficient. If the mower is difficult to push or the rear wheels drag, increase the gap between the friction disc and aluminum drive plate.

2. With the engine on, the mower should start moving as soon as the wheel drive control begins to pull on the cable. If the wheel drive control requires a long travel before the mower begins to pull, decrease the gap between the friction disc and aluminum drive plate.

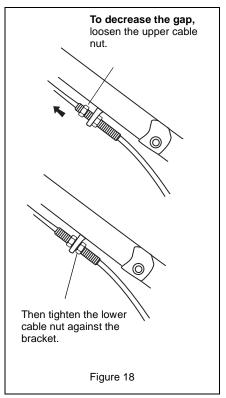
To increase the gap between the friction disc and the aluminum drive plate:

 Loosen the lower cable nut on the wheel drive control cable, and then tighten the upper cable nut against the adjuster bracket. See Figure 17.



To decrease the gap between the friction disc and the aluminum drive plate:

 Loosen the upper cable nut on the wheel drive control cable, and then tighten the lower cable nut against the adjuster bracket. See Figure 18.



2. Check the adjustment and readjust as needed.

NOTE: If the gap between the friction disc and aluminum drive plate cannot be adjusted to this tolerance, take the unit to an authorized service dealer for repairs.

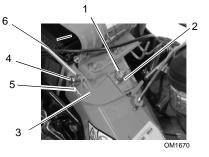
SPEED CONTROL BELL CRANK

(Self-Propelled Models)

The speed control bell crank holds the speed control rod in position after a speed has been set. The spring washers may become loose with normal wear. If the speed control rod does not stay firmly in position, adjust the speed control bell crank. See Figure 19.

To adjust:

- Remove cover, fully compress the helical spring lock washers with lock nut and then back lock nut off, one quarter turn.
- If the speed control rod is still too loose, tighten lock nut by small increments until it holds its position. Tightening the lock nut too much will not allow the speed control rod to move at all.
- 3. Align notch in left hand side of cover with bolt and secure with knob.



- Lock Nut
- Helical Spring Lock Washers
- Speed Control Bell Crank
- 4. Swivel
- 5. Hair Pin
- 6. Speed Control Rod

Figure 19

STORAGE



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

IMPORTANT: NEVER spray unit with highpressure water or store unit outdoors. Store mower in a cool, dry, protected location.

Cleaning

Clean unit thoroughly with mild soap and low pressure water. Brush off dirt and debris from all surfaces. Touch up all scratched surfaces to prevent rust. Matching touch-up paint is available from your Ariens Dealer. Do not use abrasives, solvents, or harsh cleaners.

Inspection

Inspect mower and repair or replace worn or damaged parts to avoid delays when beginning use again.

Regularly check all hardware and keep fasteners tight. Know unit is in safe working condition.

Grass Bag

Wash out grass bag and allow to dry before storage. Grass bag may be stored in position on mower.

Engine

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

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 manufacturer'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 start	Fuel tank empty or low.	Check fuel level. Fill tank if necessary.
	Spark plug wire loose or off. Engine/Blade control cable detached, broken, or not adjusted properly.	Check connection. Check cable. Adjust, repair or replace as necessary.
Engine is difficult to restart	Mower clogged with grass.	Clear clippings from under mower. (Allow the mower to clear clippings before shutting off engine.)
Cut is poor	1. Worn blade.	1. Check blade (see CHECK MOWER BLADE on page 18).
	Too much grass is being removed per cutting.	Raise cutting height.
	3. Grass is too wet.	3. Allow grass to dry.
	4. Mowing speed is too fast.	4. Mow slower.
Grass does not disperse	Too much grass is being removed per cutting.	Raise cutting height.
evenly	2. Grass is too wet.	2. Allow grass to dry.
	3. Mowing speed is too fast.	3. Mow slower.
Mower does not bag	Grass bag is overfilled.	Empty grass bag and do not allow it to overfill.
clippings	Mulching plug is installed.	Remove mulching plug.
Wheel drive does not	Wheel drive control not engaged.	Engage wheel drive control.
engage (Self- Propelled models)	2. Drive belt out of position.	Check drive belt. Adjust as necessary (see CHECK DRIVE BELT on page 19).
	3. Drive belt worn or damaged.	Replace belt (see CHECK DRIVE BELT on page 19).
	Rear wheels at different cutting heights.	Adjust rear wheels to same cutting height (see CUTTING HEIGHT ADJUSTMENT on page 11).
	5. Idler spring detached.	Attach idler spring to notch on idler arm. Contact your Dealer.
	Wheel drive control cable detached or broken.	Check wheel drive control cable. Adjust or replace as needed. See CHECK WHEEL DRIVE CONTROL on page 18.
	7. Friction disc not adjusted properly or damaged.	7. Contact your Dealer.
	8. Bearings damaged.	8. Contact your Dealer.
	9. Debris in gear set.	Contact your Dealer.

SERVICE PARTS			
Always use genuine Ariens parts to keep your mower running like new.			
Description	Description Part Number		
Air Filter	21543500 (911170)		
Air Filter	21541000 (911192, 193, 194)		
Spark Plug	21543600 (911170)		
Spark Plug	21540800 (911192, 193, 194)		
Blade	01137000		
Drive Belt	07217100		
Friction Disc	03248300		

ACCESSORIES				
See your authorized Ariens Dealer to add these optional accessories.				
Dethatcher				
Mulchmaster Plug				
Grass Bag				
Rear Discharge Chute				
Mulchmaster Mulching Kit				
71103700 Leaf Shredder				
Straight Axle Kit				
Front Swivel Wheel Kit				
71104700 Bag-N-Drag Bagger Kit				

SPECIFICATIONS				
Model Number	911193	911194	911170	911192
Description	LM21S	LM21SW	LM21	LM21
Length – in. (cm)		61.5	(156)	
Height – in. (cm)		38 (9	96.5)	
Width – in. (cm)		23 (58.4)	
Actual Weight – lbs (kg)	109 (49.4)	125 (56.7)	99 (44.9)	99 (44.9)
Cutting Width – in. (cm)		21 (53.3)	
Cutting Height – in. (cm)		6 Positions: 1.00	- 3.25 (2.5 - 8.3)	1
Engine, 4 cycle	Kawasaki	Kawasaki	Kohler	Kawasaki
Model	FJ180V	FJ180V	Courage XT-8	FJ180V
Max Rotation Speed of Cutting Edge – RPM (min)	3,300	3,300	3,200	3,200
Governed RPM (May be different from maximum rpm.)	3,200 ± 100	3,200 ± 100	3,100 ± 100	3,200 ± 100
Displacement – Cu. In. (cc)	10.9 (179)	10.9 (179)	10.6 (173)	10.9 (179)
Cylinder Bore	Aluminum		Cast Iron	Aluminum
Engine Oil Type	See Engine Manual			
Crank Case Capacity – Oz. (Liter)	23 (.7)	23 (.7)	23 (.7)	23 (.7)
Oil System	Forced/Splash	Forced/Splash	Splash	Forced/Splash
Spark Plug Gap - in. (mm)	0.030 (0.762)	0.030 (0.762)	0.030 (0.762)	0.030 (0.762)
Fuel Type		Unle	aded	
Fuel Tank Capacity – qt (Liter)	2.1 (2.0)	2.1 (2.0)	1.6 (1.5)	2.1 (2.0)
Primer Bulb	Stan	dard	N/A	Standard
Throttle	N/A			
Air Cleaner	Paper Eleme	nt with Foam	Paper Element	Paper Element with Foam
Starting	Recoil			
Differential	Standard	Standard	N/A	N/A
Variable Speeds – MPH (km/hr)	0 - 4 (0 - 6.4)	0 - 4 (0 - 6.4)	N/A	N/A
Mower Deck	14 Gauge Stamped Steel			
Front Wheel Dia - in. (cm)	7.5 (19.1)	7.5 (19.1)	7.5 (19.1)	7.5 (19.1)
Rear Wheel Dia - in. (cm)	10.5 (26.7)	10.5 (26.7)	10.5 (26.7)	10.5 (26.7)



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
НА	Zoom & ZT Zero-Turn Riders; AMP™ Rider	3 Years	90 Days
НВ	Max Zoom & ZT HD Zero-Turn Riders	3 Years	1 Year
НС	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
HA, HB	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.

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, In Europe, Asia, Africa or Central and South America: In Australia or New Zealan the Middle East:				
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	109-111 Abbot House Hallam, Victoria 3803 Australia Phone: (03) 9796 4244 1800 335 489 www.bynorm.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.

Disclaimer

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 repaired 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.



CALIFORNIA AND EPA (UNITED STATES ENVIRONMENTAL PROTECTION AGENCY) EVAPORATIVE EMISSION CONTROL WARRANTY STATEMENT

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The CARB (California Air Resources Board), the EPA, and Ariens Company are pleased to explain the evaporative emission control system's warranty on your 2012 model year small off-road equipment. In California, new equipment that uses small off-road engines must be designed, built, and equipped to meet the State's stringent anti-smog standards. Ariens Company must warrant the evaporative emission control system on your small off-road equipment for the period listed below provided there has been no abuse, neglect or improper maintenance of your equipment.

Your evaporative emission control system may include parts such as: fuel tanks, fuel lines, fuel caps, valves, canisters, filters, vapor hoses, clamps, connectors, and other associated components.

MANUFACTURER'S WARRANTY COVERAGE:

This evaporative emission control system is warranted for two years. If any evaporative emission-related part on your equipment is defective, the part will be repaired or replaced by Ariens Company.

OWNER'S WARRANTY RESPONSIBILITIES:

- As the small off-road equipment owner, you are responsible for the performance of the required
 maintenance listed in your Owner's Manual. Ariens Company recommends that you retain all
 receipts covering maintenance on your small off-road equipment, but Ariens Company cannot deny
 warranty solely for the lack of receipts.
- As the small off-road equipment owner, you should however be aware that the Ariens Company may
 deny you warranty coverage if your evaporative emission control system part has failed due to
 abuse, neglect, or improper maintenance or unapproved modifications.
- You are responsible for presenting your small off-road equipment to an authorized Ariens, Gravely, or Parker service representative as soon as the problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have a question regarding your warranty coverage, you should contact Ariens Company Technical Service Center at 1-920-756-2141.

DEFECTS WARRANTY REQUIREMENTS:

- (a.) The warranty period begins on the date the small off-road equipment is delivered to an ultimate purchaser
- (b.) General Evaporative Emissions Warranty Coverage. Ariens Company warrants to the ultimate purchaser and any subsequent owner that the evaporative emission control system when installed was:
 - Designed, built, and equipped so as to conform with all applicable EPA and CARB regulations; and
 - (2.) Free from defects in materials and workmanship that causes the failure of a warranted part for a period of two years.
- (c.) The warranty on evaporative emissions-related parts will be interpreted as follows:
 - (1.) Any warranted part that is not scheduled for replacement as required maintenance in the written instructions must be warranted for the warranty period defined in subsection (b)(2). If any such part fails during the period of warranty coverage, it must be repaired or replaced by the Ariens Company. Any such part repaired or replaced under the warranty must be warranted for a time not less than the remaining warranty period.
 - (2.) Any warranted part that is scheduled only for regular inspection in the written instructions must be warranted for the warranty period defined in subsection (b)(2). A statement in such written instructions to the effect of "repair or replace as necessary" will not reduce the period of warranty coverage. Any such part repaired or replaced under warranty must be warranted for a time not less than the remaining warranty period.
 - (3.) Any warranted part that is scheduled for replacement as required maintenance in the written instructions must be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part must be repaired or replaced by the Ariens Company. Any such part repaired or replaced under warranty must be warranted for a time not less than the remainder of the period prior to the first scheduled replacement point for the part.



- (4.) Repair or replacement of any warranted part under the warranty provisions of this article must be performed at no charge to the owner at an authorized Ariens, Gravely, or Parker service representative.
- (5.) Notwithstanding the provisions of subsection (4) above, warranty services or repairs must be provided at authorized Ariens, Gravely, or Parker service representatives that are franchised to service the subject small off-road equipment.
- (6.) The owner must not be charged for diagnostic labor that leads to the determination that a warranted part is in fact defective, provided that such diagnostic work is performed at an authorized Ariens, Gravely, or Parker service representative.
- (7.) Throughout the evaporative emission control system's warranty period set out in subsection (b)(2), the Ariens Company must maintain a supply of warranted parts sufficient to meet the expected demand for such parts.
- (8.) Manufacturer-approved replacement parts must be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of the manufacturer issuing the warranty.
- (9.) The use of any add-on or modified parts will be grounds for disallowing a warranty claim made in accordance with this article. The manufacturer issuing the warranty will not be liable under this Article to warrant failures of warranted parts caused by the use of an add-on or modified part.

Evaporative Emission Warranty Parts List

The following parts are considered emission-related components for evaporative emissions:

- · Fuel Tank, Fuel Cap and Tether
- · Fuel Line, Fuel Line Fittings, Clamps*
- · Pressure Relief Valves, Control Valves*
- Control Solenoids*, Electronic Controls*
- Vacuum Control Diaphragms*
- Control Cables*. Control Linkages*
- Purge Valves
- · Vapor Hoses, Liquid/Vapor Separator
- Carbon Canister, Canister Mounting Brackets
- · Carburetor Purge Port Connector
 - * As related to the evaporative emission control system

Disclaimer

New equipment sold in the state of California that uses small off-road engines must be exclusively certified and appropriately labeled for sale in California. Some equipment covered by this Owner's Manual my not be certified for sale in California and the presence of the preceding CARB and EPA Warranty Statement does not by its existence indicate which, if any, of the equipment covered by this Owner's Manual may be sold in California.

Some equipment covered by this Owner's Manual may have been manufactured prior to certain affectivity dates requiring the inclusion of evaporative emission control systems. Therefore some equipment covered by this Owner's Manual may not include the evaporative emission control systems referred to in the preceding CARB and EPA Warranty Statement.





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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