



Rear-Engine Rider

Owner/Operator Manual

Models

927067 - 10528

927069 - 14532



(GB) ENGLISH

(F) FRANÇAIS

(E) ESPAÑOL

Transfer model & serial number label from product registration here.

Coller l'autocollant du modèle et du numéro de série dans cet encadré.
Transferir aquí la etiqueta del modelo y número de serie del registro del producto.

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Printed in USA

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INTRODUCTION

THE MANUAL

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

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

MODEL AND SERIAL NUMBERS

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

Numbers are located on the product registration form in the unit literature package. They are printed on a serial number label, located on the frame of your unit.



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

Figure 1

OA0120

- 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.

UNAUTHORIZED REPLACEMENT PARTS

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

DELIVERY

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

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

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



WARNING: Improper assembly or adjustments can cause serious injury.

Before Attempting To Operate Your Unit

1. Make sure all assembly has been properly completed.
2. Understand all Safety Precautions provided in the manuals.
3. Review control functions and operation of the unit. Do not operate the unit unless all controls function as described in this manual.
4. Review recommended lubrication, maintenance and adjustments.
5. Review Limited Warranty Policy.

6. Fill out a Product Registration Card and return the card to the Ariens Company or go to www.ariens.com.

DISCLAIMER

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

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

SAFETY



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

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

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

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

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

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



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.

SAFETY ALERTS



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

- **Attention!**
- **Personal Safety Is Involved!**
- **Become Alert!**
- **Obey The Message!**



NOTATIONS

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

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

SAFETY DECALS AND LOCATIONS

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



1. Danger!



Read the operator's manual.



Keep children and others away from unit while operating.



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



Look down and behind before and while backing.



Never carry children.



Go up and down slopes, not across.



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

2. Hot Surfaces!



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

3. Danger!



Always keep feet and hands away from rotating parts.



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



Keep people away from unit while operating.



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

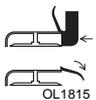


NO STEP! Always keep feet away from rotating parts.

4. Warning!



Always stand clear of discharge area.



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

5. Caution!

- Maximum Tongue weight: 30 lbs.
- Maximum Trailer weight: 100 lbs.
- Do not use hitch with bagger attached.
- Do not use on steep hills or slopes.
- Do not park on hills when trailer is attached.
- Do not use with any ground engaging equipment.



Do not tip unit on end.

SAFETY RULES

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

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

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

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

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

ALWAYS check overhead and side clearances carefully before operation.

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

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

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

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

Stay alert for hidden hazards, holes, and ruts.

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

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

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

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

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

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

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

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

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

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

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

ALWAYS keep hands away from all pinch points.

Start and operate unit only when seated in operator's position. Before starting engine: disengage PTO, place direction control pedal in neutral, lower attachment and set parking brake.

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

DO NOT touch unit parts which might be hot from operation. Allow parts to cool before attempting to maintain, adjust or service.

NEVER place your hands or any part of your body or clothing inside or near any moving part while unit is running.

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

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

Use extreme caution on gravel surfaces.

Disengage PTO when attachment is not in use and when crossing gravel surfaces.

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

ALWAYS remove key to prevent unauthorized use.

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

Stop engine before removing grass catcher or unclogging chute.

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

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

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

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

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

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

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

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

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

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

Mow up and down slopes, not across them.

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

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

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

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

DO NOT operate on slopes over 10°.

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

DO NOT disengage or bypass transmission and coast downhill.

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

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

NEVER allow children or others in or on towed equipment.

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

Travel slowly and allow extra distance to stop.

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

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

DO NOT transport machine while engine is running.

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

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

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

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

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

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

NEVER fill or drain fuel tank indoors.

NEVER overfill fuel tank.

Replace fuel cap securely and clean up spilled fuel.

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

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

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

If fuel is spilled on clothing, change clothing immediately.

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

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

NO flames, NO sparks, NO smoking near battery.

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

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

ALWAYS keep batteries out of reach of children.

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

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

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

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

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

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

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

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

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

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

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

Check brake operation frequently. Adjust and service as required.

Keep all hardware properly tightened.

Stored energy in springs can cause injury.

Maintain or replace safety and instruction labels, as necessary.

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

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

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

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

Use only attachments or accessories designed for your unit.

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

ASSEMBLY



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

TOOLS REQUIRED

- Adjustable wrench
- Petroleum jelly or dielectric grease.

UNPACK UNIT

Remove unit and all other components from the shipping container. Engage transmission bypass lever (see *MOVING THE UNIT MANUALLY* on page 12). Push unit from container onto a level surface. Disengage transmission bypass lever.

FIRST TIME USE

1. Install steering wheel.
2. Connect negative battery cable to battery. See *Battery Removal and Installation* on page 19 and perform step 1 in the removal section and perform steps 3, 4, and 5 in the installation section.
3. Check engine oil. Refer to Engine Manual.
4. Check tire pressure (see *SPECIFICATIONS* on page 25).
5. Fill fuel tank (see *FILLING FUEL TANK* on page 11).
6. Adjust seat (see *SEAT ADJUSTMENT* on page 13).
7. Check safety interlock system (see *Safety Interlock System* on page 10).
8. Check level and pitch of mower deck (see *Leveling Mower Deck* on page 16 and *Adjusting Mower Deck Pitch* on page 17).
9. Check function of all controls (see *OPERATION* on page 10).

CONTROLS AND FEATURES

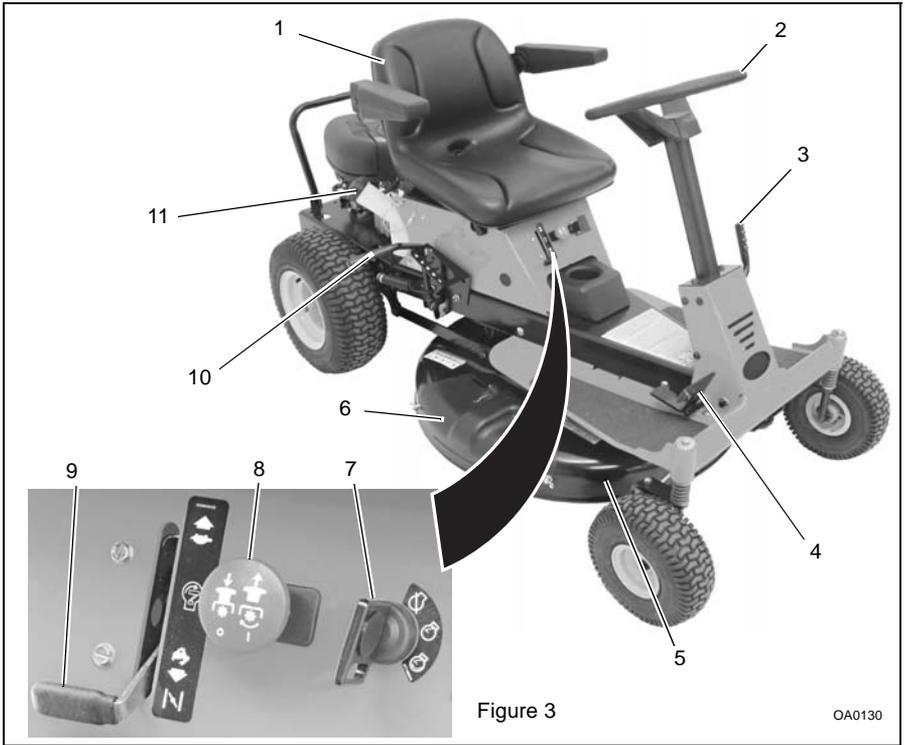


Figure 3

OA0130

1. Seat
2. Steering Wheel
3. Parking Brake
4. Forward and Reverse Pedal
5. Mower Deck
6. Mulch Cover / Discharge Chute (Unit shown with mulch cover installed.)
7. Ignition Switch
8. PTO Switch
9. Throttle Lever
10. Mower Lift Lever
11. Fuel Tank

OPERATION



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

Controls And Features

See figure 3 for all controls and features locations.

Safety Interlock System



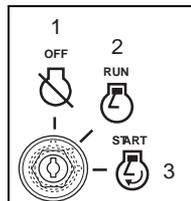
WARNING: Safety interlock failure and improper operation of unit can result in death or serious injury. Check system before each use to make sure it is functioning properly.

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

Test	Forward and Reverse Pedal	PTO	Parking Brake	Engine
1	Neutral	Off	Engaged	Starts
2	Forward	Off	Engaged	Doesn't Start
3	Reverse	Off	Engaged	Doesn't Start
4	Neutral	On	Engaged	Doesn't Start
5	Neutral	Off	Disengaged	Doesn't Start
6*	Forward	Off	Engaged	Shuts Off
7*	Reverse	Off	Engaged	Shuts Off
8*	Reverse	On	Disengaged	Runs but PTO (Mower Blade) Shuts Off
9*+	Neutral	On	Disengaged	Shuts Off
10*+	Neutral	Off	Disengaged	Shuts Off
11*+	Neutral	Off	Engaged	Runs

*Test with engine running.
+Operator lifts off seat.

Ignition Switch



Operated by a removable key:

1. Off
2. Run
3. Start

Throttle Lever



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

Fast (2) – Increases engine speed.

Slow (3) – Decreases engine speed.

Forward and Reverse Pedal

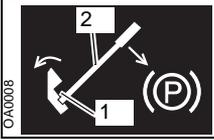


Press front of pedal down to move unit forward.

Press rear of pedal down to move unit backward.

Remove foot from pedal to return unit to neutral and to stop the unit.

Parking Brake



Fully depress parking brake (1) and engage parking brake lever (2).

PTO Switch



Engages and disengages attachment. Pull switch to engage; push switch to disengage.

Mower Lift Lever



Raises and lowers the mower deck. See *SPECIFICATIONS* on page 25 for height adjustments.

Discharge Chute and Mulch Cover (Figure 4)

To Mulch:

1. Lift up mulch cover and remove discharge chute.
2. Remove wing knobs from mower deck.
3. Secure mulch cover to mower deck with wing knobs.

To Side Discharge:

1. Remove wing knobs.
2. Lift up mulch cover and re-install wing knobs on mower deck.
3. Install the two tabs of the discharge chute into the two slots of the mulch cover.

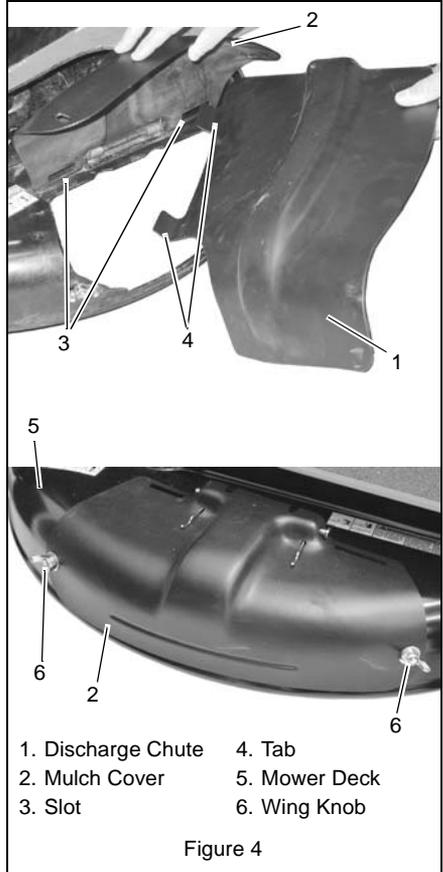
FILLING FUEL TANK

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

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

3. Fill fuel tank to 1/2 in. (1.3 cm) below bottom of filler neck. See *SPECIFICATIONS* on page 25 for fuel tank capacity.

4. Replace fuel cap



- | | |
|--------------------|---------------|
| 1. Discharge Chute | 4. Tab |
| 2. Mulch Cover | 5. Mower Deck |
| 3. Slot | 6. Wing Knob |

Figure 4

STOPPING IN AN EMERGENCY

Remove foot from forward and reverse pedal and press on parking brake.

STARTING AND SHUTTING OFF ENGINE

Starting Engine

NOTE: PTO must be disengaged prior to starting engine.

1. Set throttle lever to choke for a cold engine. Set throttle lever at 1/3 throttle for a warm engine.

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

2. Depress brake pedal.

3. Turn ignition key to start position and release once engine has started.
4. After engine starts, set throttle lever to fast position.

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

NOTE: When engine is running, PTO belt is turning electric clutch on mower deck. The electric clutch **WILL NOT** engage mower blades until PTO switch is engaged.

Shutting Off Engine

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

OPERATING MOWER

1. Start engine.
2. Set throttle lever fast.
3. Engage PTO to start mower blades.
4. Use forward and reverse pedal to move unit.



WARNING: If the unit is moved into reverse with the PTO (mower blade) engaged, the PTO (mower blade) **MUST** shut off. If this system does not function as described, do not operate unit until repairs are made.

NOTE: To re-engage PTO (mower blade) after traveling in reverse, place the unit in neutral or start moving the unit forward. Then, pull up on the PTO switch to engage the PTO (mower blade).

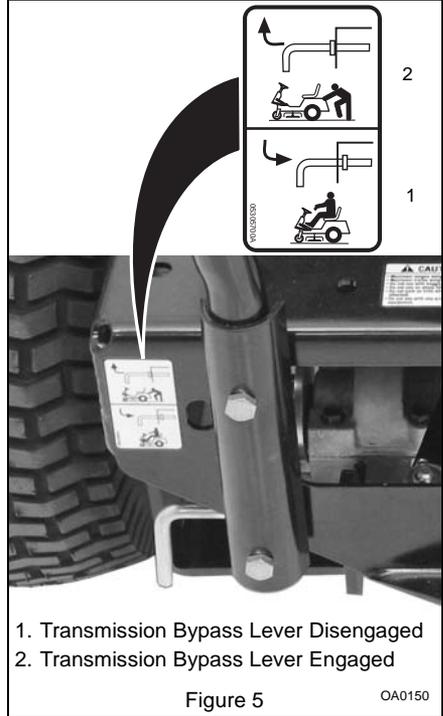
5. Disengage PTO to stop mower blades.

MOVING THE UNIT MANUALLY



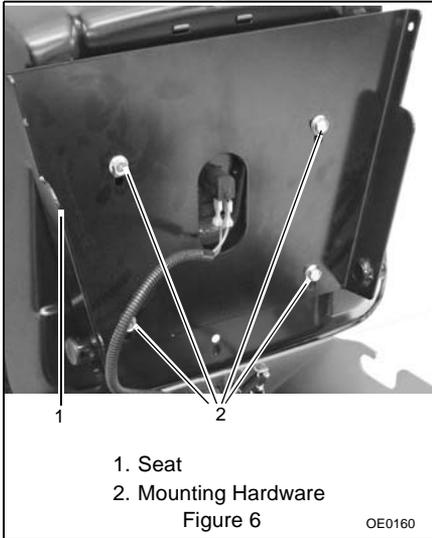
WARNING: DO NOT disengage or bypass transmission and coast downhill.

Disengage transmission bypass lever (1) to drive unit and engage transmission bypass lever (2) to push unit manually (figure 5).



SEAT ADJUSTMENT

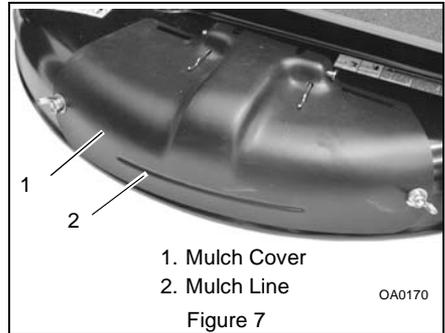
1. Tip seat forward (see *TIPPING THE SEAT FORWARD* on page 15).
2. Loosen mounting hardware and slide seat forward or backward to desired position. Tighten mounting hardware.
3. Tip seat back (see *TIPPING THE SEAT FORWARD* on page 15).



FOR BEST PERFORMANCE

Cut grass when it is dry.
Keep mower blade sharp.
Keep mower deck properly leveled.
Do not set height of cut too low. For very tall grass, mow twice.
Do not travel too fast.
Mow with the engine set at full throttle.
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.

NOTE: For best mulching performance, DO NOT mulch grass that is higher than the mulch line (figure 7).



TRANSPORTING UNIT

ALWAYS turn engine off when transporting on truck or trailer. Tie unit down securely. Do not tie down by linkages, guards, cables or other parts that may be damaged.

MAINTENANCE SCHEDULE



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

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

IMPORTANT: Do not place unit on end.

Interval	Task	Action
Each Use	Check Safety Interlock System	<p>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 10).</p>
	Check Parking Brake	Engage parking brake and engage transmission bypass lever (see <i>MOVING THE UNIT MANUALLY</i> on page 12). Push unit. If unit rolls, contact your Ariens Dealer.
	Clean Unit	Clean engine, battery, seat, mower deck, etc. of all dirt and debris. Do not use solvents, hard cleaners, or abrasives. NOTE: Protect painted surfaces with automotive type wax. IMPORTANT: The electric clutch MUST be cool prior to cleaning mower deck with water.
	Check Tires	See <i>SPECIFICATIONS</i> on page 25 for correct tire pressure.
	Check Mower Blade	Check for a worn or damaged mower blade (see <i>SHARPENING MOWER BLADE</i> on page 18).
	Follow Engine Manual Maintenance Schedule	Perform scheduled engine maintenance. Refer to Engine Manual for detailed instructions.
25 Hours or Every Season	Check Battery	Keep battery and battery terminals clean (see <i>Cleaning Battery and Battery Cables</i> on page 19).
	Lubricate Unit	Apply grease to two front wheel zerks, steering gear, and pinion. <div style="float: right; text-align: center;"> </div>
50 Hours or Every Season	Check Fasteners	Check mower blade mounting hardware and all other fasteners. Replace fasteners that are missing or damaged. Tighten all nuts and bolts to the correct torque value.
100 Hours or Every Season	Check All Belts	Replace worn or deteriorated belts. <ul style="list-style-type: none"> • Check hydrostatic belt (see <i>HYDROSTATIC BELT REPLACEMENT</i> on page 21 for hydrostatic belt location). • Check PTO belt (see <i>PTO BELT REPLACEMENT</i> on page 21 for PTO belt location).

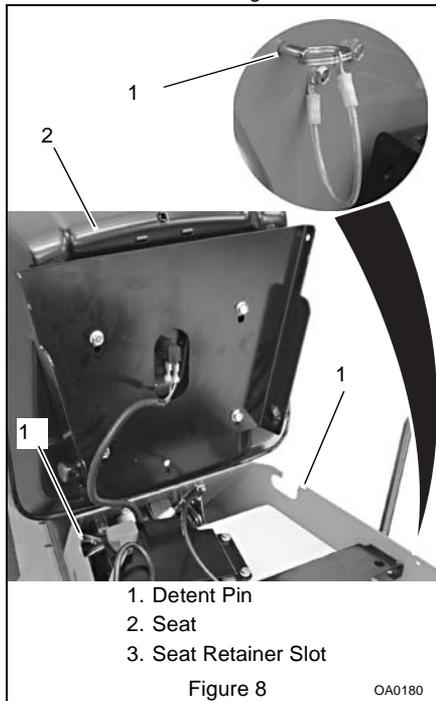
SERVICE AND ADJUSTMENTS



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

TIPPING THE SEAT FORWARD

Pull out detent pin, pull seat back, and then lift seat out of seat retainer slots and place seat on frame and steering wheel.



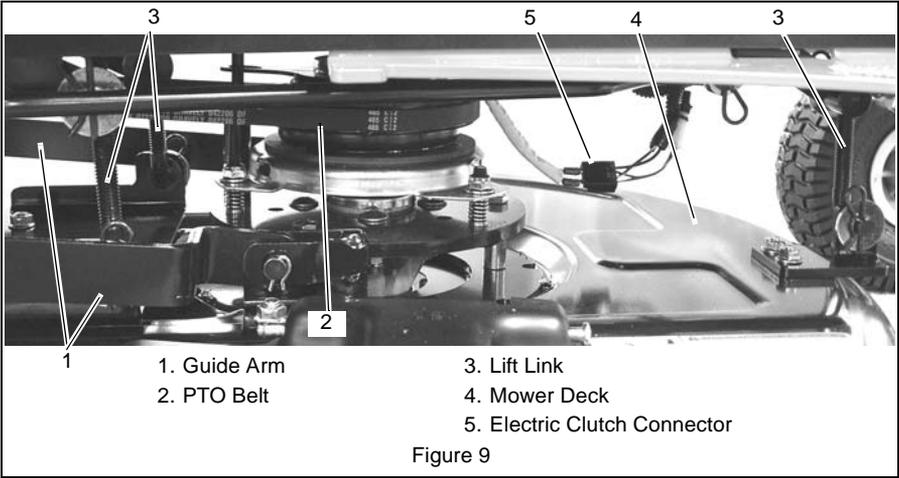
REMOVE AND INSTALL MOWER DECK

Remove ((Figure 9))

1. Remove PTO belt (see *PTO BELT REPLACEMENT* on page 21).
2. Disconnect electric clutch connector.
3. Disconnect guide arms from unit.
4. Remove three lift links from mower deck and unit.
5. Slide mower deck out from under unit.

Install (Figure 9)

1. Slide mower deck under unit.
2. Install three lift links on mower deck and unit.
3. Install guide arms on unit.
4. Connect electric clutch connector.
5. Install PTO belt (see *PTO BELT REPLACEMENT* on page 21).



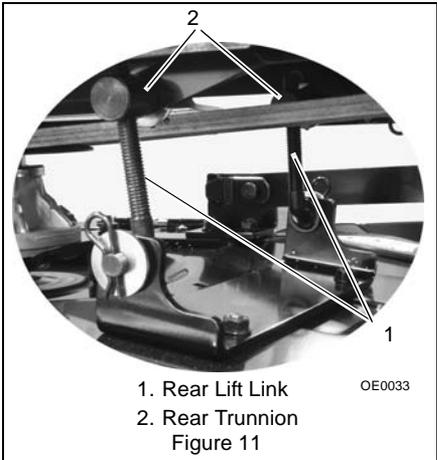
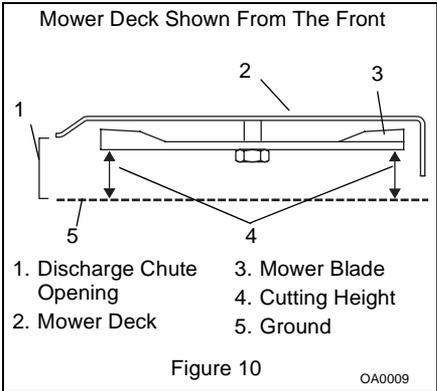
LEVELING MOWER DECK AND ADJUSTING MOWER DECK PITCH

Adjust on a level surface, with tires inflated to correct air pressure (see *SPECIFICATIONS* on page 25), and mower lift lever in the middle position.

Leveling Mower Deck

NOTE: Cutting height should be within 1/4 in. (6.35 mm) on each side of mower deck (figure 10).

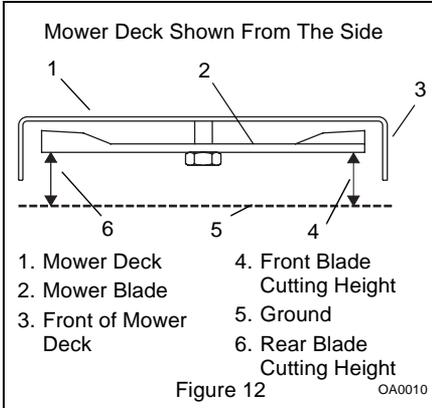
1. With mower blade in line with discharge chute opening, measure distance from bottom of mower blade to the ground on each side of mower deck.
2. Perform steps 3 through 5 if the measurement is too high or too low on either side of mower deck.
3. Remove rear lift link and rear trunnion from unit (figure 11).
 - TO RAISE the mower deck, turn rear trunnion clockwise several turns.
 - TO LOWER the mower deck, turn rear trunnion counterclockwise several turns.
4. Install rear lift link and rear trunnion on unit.
5. Check that the mower deck is level.
 - If mower deck is not level, repeat steps 1 through 4.
 - If mower deck is level, then adjust mower deck pitch.



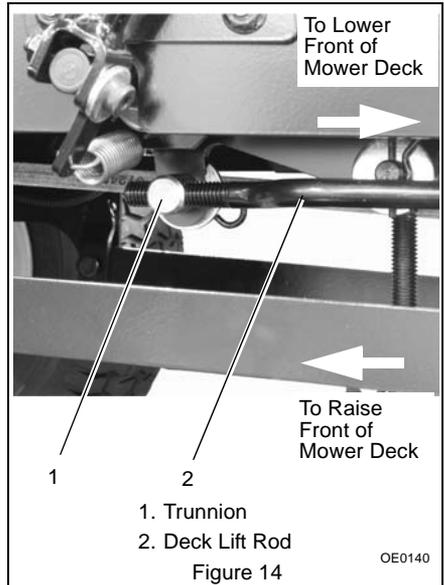
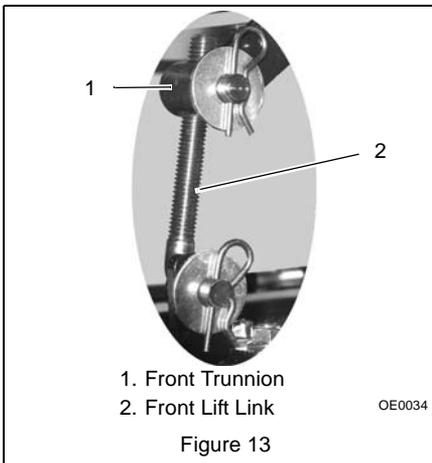
Adjusting Mower Deck Pitch

NOTE: The front blade cutting height should be 1/16 – 3/8 in. (1.59 – 9.53 mm) lower than the rear blade cutting height (figure 12).

1. With the end of the mower blade facing forward, measure distance from bottom of mower blade to the ground at front of mower deck.
2. Turn mower blade 180 degrees and measure distance from bottom of mower blade to the ground at rear of mower deck.
3. Perform steps 4 through 6 if the measurement is too high or too low.



4. Remove front trunnion and front lift link from unit (figure 13).
 - TO RAISE front of mower deck, turn front trunnion clockwise several turns.
 - TO LOWER front of mower deck, turn front trunnion counterclockwise several turns.
5. Install front trunnion and front lift link on unit.
6. Check mower deck pitch.
 - If mower blade pitch is not correct, go to step 7.
 - If mower deck pitch is correct, the adjustment is complete.
7. Adjust deck lift rod (figure 14):
 - a. Remove trunnion from unit.
 - b. TO RAISE front of mower deck, turn trunnion counterclockwise several turns.
 - c. TO LOWER front of mower deck, turn trunnion clockwise several turns.
 - d. Install trunnion on unit.
8. Check mower deck pitch.
 - If mower blade pitch is not correct, repeat steps 4 through 6.
 - If mower deck pitch is correct, the adjustment is complete.



MOWER BLADE REPLACEMENT



CAUTION: A mower blade is sharp and can cut you. Wrap the mower blade or wear gloves, and use extra caution when servicing.

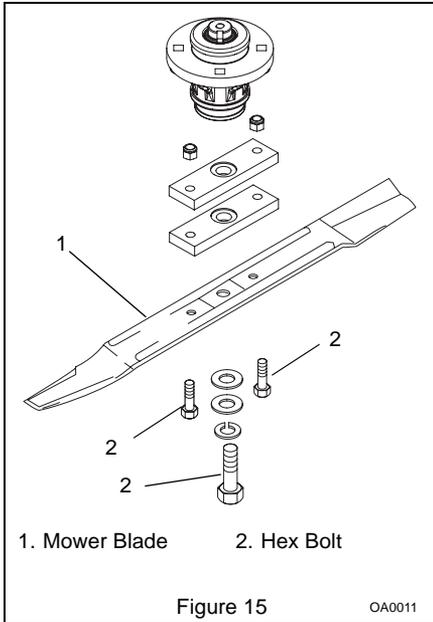


Figure 15

OA0011

Remove (figure 15)

1. Place mower lift lever in the highest position.
2. Block mower blade to prevent rotation.
3. Remove mower blade.

Install (figure 15)

1. Install mower blade.
2. Torque hex bolts to 45-55 lbf-ft (61 - 75 N•m).

SHARPENING MOWER BLADE



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

1. Remove mower blade from unit (see *MOWER BLADE REPLACEMENT* on page 18).

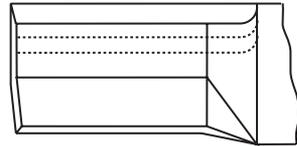
NOTE: Ariens recommends having the mower blade sharpened by a professional. Contact your Ariens dealer.

Discard mower blade if (figure 16):

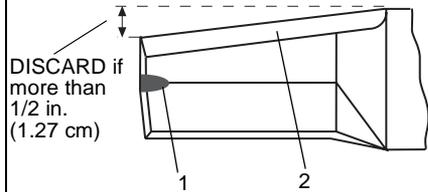
- more than 1/2 in. (1.27 cm) of metal is removed.
- air lift erosion area is eroded.
- mower blade is bent or broken.

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

DO NOT Sharpen to this Pattern



Sharpen to this Pattern



DISCARD if more than 1/2 in. (1.27 cm)

1. Air Lift Erosion Area
2. Cutting Edge Area

Figure 16

OA0014

2. Sharpen mower blade by removing an equal amount of material from each end of mower blade.
3. Check mower blade balance by sliding mower blade on an unthreaded bolt. If blade is balanced, it should remain in a horizontal position. If either end of mower blade moves downward, sharpen the heavy end until mower blade is balanced.
4. Install mower blade on unit (see *MOWER BLADE REPLACEMENT* on page 18).

Servicing the Battery

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



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

Battery Removal and Installation

Remove (Figure 17)

1. Tip seat forward (see *TIPPING THE SEAT FORWARD* on page 15).
2. Disconnect negative (-) cable first then positive (+) cable.
3. Remove battery hold-down bracket and cross brace.
4. Remove battery from unit.

Install (Figure 17)

1. Install battery on unit.
2. Install cross brace and battery hold-down bracket.
3. Connect positive (+) cable first, then negative (-) cable.
4. Apply petroleum jelly or dielectric grease to battery cable ends and terminals.
5. Tip seat back (see *TIPPING THE SEAT FORWARD* on page 15).

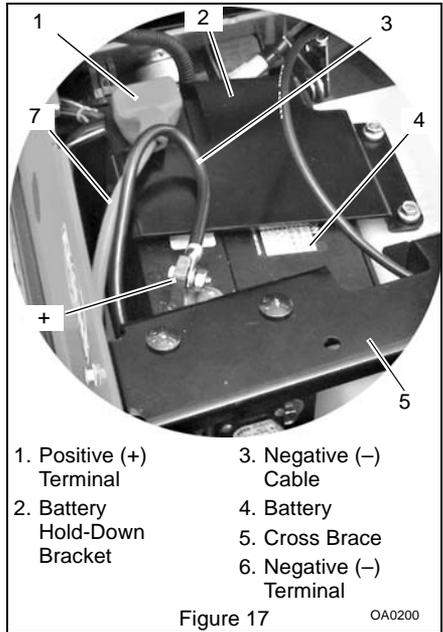


Figure 17

OA0200

Cleaning Battery and Battery Cables (Figure 17)

1. Remove battery from unit (see *Battery Removal and Installation* on page 19).
2. Clean or service battery away from unit. Remove corrosion from battery terminals and cable connections with wire brush, then wash with a weak baking soda solution.
3. Install battery on unit (see *Battery Removal and Installation* on page 19).

Charging the Battery

(Figure 17)



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

Follow First Aid directions for contact with battery fluid.

- External Contact: Flush with water.
- Eyes: Flush with water for at least 15 minutes and get medical attention immediately!
- Internal Contact: Drink large quantities of water. Follow with Milk of Magnesia, beaten egg or vegetable oil. Get medical attention immediately!

- In case of internal contact, DO NOT induce vomiting!

IMPORTANT: DO NOT fast charge.

Charging at a higher rate will damage or destroy battery.

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

1. Remove battery from unit (see *Battery Removal and Installation* on page 19).
2. Place battery on bench or other well-ventilated area.
3. Connect positive (+) lead of charger to positive (+) terminal, and negative (-) lead of charger to negative (-) terminal.
4. Charge battery according to battery charger and battery manufacturers' instructions.
5. Install battery on unit (see *Battery Removal and Installation* on page 19).

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.

FRONT WHEEL ALIGNMENT

Check (Figure 18)

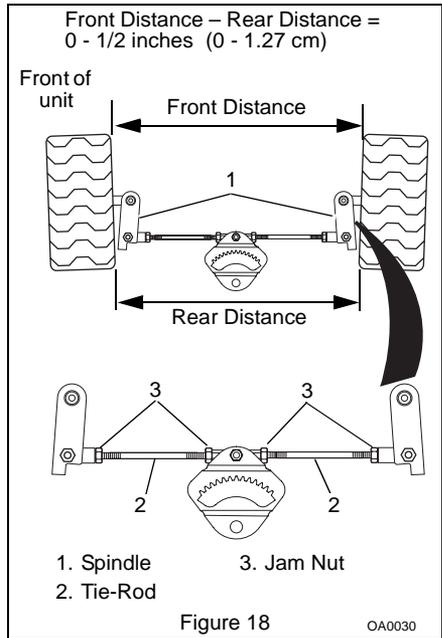
NOTE: The front distance should be 0 - 1/2 inches (0 - 1.27 cm) greater than the rear distance when the wheels are pointed straight ahead.

Lengthen the tie-rods to make the distance between the front and rear shorter. Shorten the tie-rods to make the distance between the front and rear longer.

- The same adjustment will be made for both, left-hand and right-hand, tie-rods.
- The minimum engagement of thread for both tie-rods is 1/4 in. (0.635 cm).

Adjust (Figure 18)

1. Remove tie-rod(s) from spindle(s).
2. Loosen jam nut(s) and turn tie-rod(s) clockwise or counterclockwise until the distance between the jam nuts is within specifications.
3. Tighten jam nuts.
4. Install tie-rod(s) on spindle(s).



HYDROSTATIC BELT REPLACEMENT

Remove (Figure 19)

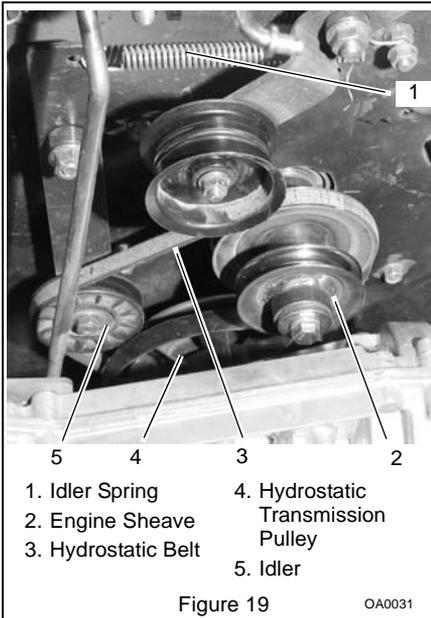
1. Remove PTO belt (see *PTO BELT REPLACEMENT* on page 21).

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

2. Push idler towards the inside of the unit and remove hydrostatic belt from idler.
3. Remove hydrostatic belt from engine sheave and hydrostatic transmission pulley.

Install (Figure 19)

1. Install hydrostatic belt on hydrostatic transmission pulley and engine sheave.
2. Push idler towards the inside of the unit and place hydrostatic belt on idler.
3. Slowly release idler until hydrostatic belt rests firmly against idler.
4. Install PTO belt (see *PTO BELT REPLACEMENT* on page 21).



PTO BELT REPLACEMENT

Remove (Figure 20)

Mower Deck Shown Removed For Clarity

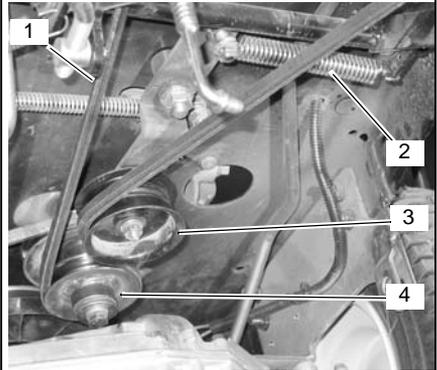


Figure 20

OA0023

1. Lower mower deck to the ground.

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

2. Pull idler towards the outside of the unit and remove PTO belt from idler.
3. Remove PTO belt from mower deck pulley and engine sheave.

Install (Figure 20)

1. Install PTO belt on engine sheave and mower deck pulley.
2. Pull idler towards the outside of the unit and place PTO belt on idler.
3. Slowly release idler until PTO belt rests firmly against idler.

STORAGE

Short Term Storage

IMPORTANT: NEVER clean unit with high-pressure water or store unit outdoors. Remove all dirt, grease, leaves, etc. Store in a clean dry area.
Inspect unit for signs of wear or damage.
Ensure all fasteners are properly tightened.

Long Term Storage

Follow all instructions under *Short Term Storage*.
Remove and fully charge battery. Store in a clean dry area.
Drain fuel from fuel tank.
Refer to Engine Manual for the proper engine storage procedures.
Touch up all scratched or chipped paint surfaces.

TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE	CORRECTION
Engine will not crank/start.	<ol style="list-style-type: none"> 1. Safety interlock system is not engaged or is faulty. 2. Fuel tank empty. 3. Discharged battery. 4. Poor connection between battery and battery cables. 5. Spark plug wire loose or spark plug faulty. 6. Faulty electrical system. 7. Faulty engine. 	<ol style="list-style-type: none"> 1. Check safety interlock system (see <i>Safety Interlock System</i> on page 10). 2. Fill fuel tank. 3. Charge battery (see <i>Charging the Battery</i> on page 19). 4. Tighten battery cables and/or clean battery and battery cables (see <i>Cleaning Battery and Battery Cables</i> on page 19). 5. Connect spark plug wire or replace spark plug. Refer to Engine Manual for detailed instructions. 6. Contact your Ariens Dealer. 7. Contact your Ariens Dealer.
Engine runs rough.	<ol style="list-style-type: none"> 1. Choke engaged. 2. Air filter plugged. 3. Faulty engine. 	<ol style="list-style-type: none"> 1. Disengage choke. 2. Clean or replace air filter. Refer to Engine Manual for detailed instructions. 3. Contact your Ariens Dealer.
Unit does not move with engine running when using forward and reverse pedal.	<ol style="list-style-type: none"> 1. Transmission bypass lever is engaged. 2. Faulty hydrostatic belt. 3. Faulty transmission. 	<ol style="list-style-type: none"> 1. Disengage transmission bypass lever (see <i>MOVING THE UNIT MANUALLY</i> on page 12). 2. Replace hydrostatic belt (see <i>HYDROSTATIC BELT REPLACEMENT</i> on page 21). 3. Contact your Ariens Dealer.
PTO or mower blade does not engage or shuts off.	<ol style="list-style-type: none"> 1. Operator presence switch not depressed. 2. Faulty operator presence switch. 3. Electric clutch connector is loose or disconnected. 4. Faulty PTO belt. 5. Faulty PTO switch, wires, connectors, or clutch. 	<ol style="list-style-type: none"> 1. Depress operator presence switch by sitting on seat. 2. Contact your Ariens Dealer. 3. Connect electric clutch connector. See figure 9 on page 16 for connector location. 4. Replace PTO belt (see <i>PTO BELT REPLACEMENT</i> on page 21). 5. Contact your Ariens Dealer.
Engine overheats.	<ol style="list-style-type: none"> 1. Engine oil level low. 2. Cooling system plugged. 3. Faulty engine. 	<ol style="list-style-type: none"> 1. Add engine oil. Refer to Engine Manual for detailed instructions. 2. Clean cooling system. Refer to Engine Manual for detailed instructions. 3. Contact your Ariens Dealer.

PROBLEM	PROBABLE CAUSE	CORRECTION
Unit moves with engine off and parking brake engaged.	<ol style="list-style-type: none"> 1. The parking brake needs adjustment. 2. Faulty parking brake. 	<ol style="list-style-type: none"> 1. Contact your Ariens Dealer. 2. Contact your Ariens Dealer.
Poor cutting quality.	<ol style="list-style-type: none"> 1. Mower deck not level or mower deck pitch is incorrect. 2. Dull or faulty mower blades. 	<ol style="list-style-type: none"> 1. Level mower deck or adjust pitch (see <i>LEVELING MOWER DECK AND ADJUSTING MOWER DECK PITCH</i> on page 16). 2. Sharpen mower blades (see <i>SHARPENING MOWER BLADE</i> on page 18) or replace mower blades (see <i>MOWER BLADE REPLACEMENT</i> on page 18).

SERVICE PARTS

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

Part no.	Qty	Description
01600600	1	28-inch mower blade (927067)
02774500	1	32-inch mower blade (927069)
NA	1	Battery, Sealed Maintenance Free UI – 330 (See Local Battery Supplier)
07221000	1	PTO Belt (927067)
07241400	1	PTO Belt (927069)
07211700	1	Hydrostatic Belt

SPECIFICATIONS

Model Number	927067	927069
Description	10528	14532
Engine		
Type	Single Cylinder Briggs & Stratton	
Engine Power – hp (kW) @ Max RPM	10.5	14.5
Max RPM	3600	
Transmission	Hydrostatic	
Speed		
Forward Max. – mph (km/h)	5.5 (8.85)	
Reverse Max. – mph (km/h)	2.5 (4.02)	
Turning Radius – in. (cm)	12 (30.5)	
Parking Brake	Internal Hydrostatic Transmission Brake	
Electrical		
Starter	Electric	
Power Take-Off	Electric PTO Clutch/Brake	
Battery	12 Volt Maintenance Free	
Fuel		
Fuel Type	Refer to Engine Manual	
Fuel Tank Capacity – gal. (L)	1.6 (6.06)	
Size and Weight		
Weight – lb (kg)	390 (177)	400 (181)
Height – in. (cm)	38.7 (98.4)	
Length – in. (cm)	66 (168)	
Width – in. (cm)	33 (83.8)	
Tires		
Front Tire Size – in. (cm)	4 x 3.5 x 10 (10.2 x 8.84 x 25.4)	4.10 x 3.5 x 10 (10.4 x 8.84 x 25.4)
Rear Tire Size – in. (cm)	8 x 6.5 x 16 (20.3 x 16.5 x 40.6)	
Front Tire Pressure – psi (kPa)	24 (165)	
Rear Tire Pressure – psi (kPa)	12 (82.7)	
Mower Deck		
Cutting Heights – in. (cm) – (may vary due to variations in tire diameters)	1 - 4 (2.5 - 10.2)	
Cutting width - in. (cm)	28 (71)	32 (81.3)
Max. Towing Capacity – lb (kg)	100 (45)	
Max. Tongue Weight – lb (kg)	30 (13.6)	



Ariens Limited Warranties



2-Year Limited Lawn and Garden Consumer Warranty

Ariens Company (Ariens) warrants to the **original purchaser** that Ariens and Gravely brand consumer products manufactured by Ariens Company will be free from defects in material and workmanship for a period of two (2) years after the date of purchase, and that Ariens 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 to the **original purchaser** (labor and parts), except as noted below.

The two-year duration of this warranty applies only if the product is put to ordinary, reasonable, and usual personal, family, or household uses. If the product is put to any business, commercial, or industrial use such as, but not limited to, commercial landscaping, mowing or snow removal services, or golf course or park maintenance, or agricultural or farmstead use, then the duration of this warranty is ninety (90) days after the date of purchase, or one (1) year after the date of purchase if the product is labeled as a Professional/Commercial Product. The duration of this warranty shall be ninety (90) days after the date of purchase if any product is rented or leased.

2-Year Limited Lawn and Garden Commercial Warranty

The Ariens Company (Ariens) warrants to the **original purchaser** that all Gravely Pro and ProMaster products manufactured by Ariens will be free from defects in material and workmanship for a period of two (2) years after the date of purchase or 1000 hours of use, whichever comes first. An authorized Gravely dealer will repair any defect in material or workmanship, and repair or replace any defective part, subject to the conditions, limitations and exclusions set forth herein. Such repair or replacement will be free of charge to the **original purchaser** (labor and parts), except as noted below.

The duration of this warranty shall be ninety (90) days after the date of purchase or 1000 hours of use, whichever comes first, if any product is rented or leased.

3-Year Limited Sno-Thro Warranty

Ariens Company (Ariens) warrants to the **original purchaser** that Sno-Thro products manufactured by Ariens Company will be free from defects in material and workmanship for a period of three (3) years after the date of purchase, and 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 to the **original purchaser** (labor and parts), except as noted below.

The three-year duration of this warranty applies only if the product is put to ordinary, reasonable, and usual personal, family, or household uses. If the product is put to any business, commercial, or industrial use, then the duration of this warranty is ninety (90) days after the date of purchase, or one (1) year after the date of purchase if the product is labeled as a Professional/Commercial Product. The duration of this warranty shall be ninety (90) days after the date of purchase if any product is rented or leased.

DURA-CLEAN™ Auger Limited Lifetime Warranty

Ariens Company (Ariens) warrants to the **original purchaser** that the rubber components of the DURA-CLEAN™ Auger manufactured by Ariens Company will be free from defects in material and workmanship and will not wear out for the life of the Sno-Thro, except as noted below.

Ariens Company will provide for the replacement of any of the rubber components of the DURA-CLEAN™ Auger found upon examination by the Ariens Company to be defective or worn out. Replacements will be supplied free of charge. Labor is not included after two (2) years from the date of purchase of the Sno-Thro.

The lifetime limited warranty shall apply if the product is put to ordinary, reasonable, and usual personal household use. If the product is put to any business, commercial, industrial, rental, or leased use, the warranty shall be against defects in material and workmanship for ninety (90) days following the date of purchase.

Exceptions, Limitations, Exclusions

These warranties are subject to the following conditions, limitations, and exclusions:

To obtain warranty service, the following conditions must be met:

- The purchaser must perform the maintenance and minor adjustments explained in the owner's manual.
- The purchaser must promptly notify Ariens Company or an authorized Ariens service representative of the need for warranty service.
- The purchaser must transport the product to and from the place of warranty service.
- Warranty service must be performed by a respective Ariens or Gravelly authorized service representative.
- To find an Ariens or Gravelly authorized service representative, contact Ariens at:

655 W. Ryan St, P.O. Box 157
Brillion, WI 54110-0157
(920) 756 - 2141
www.ariens.com
www.gravelly.com

This warranty is subject to the following limitations:

- Genuine Ariens or Gravelly brand service parts and accessories not purchased with the product covered by this warranty, but which are later purchased and used with that product, are warranted to be free from defects in material and workmanship for a period of ninety (90) days after date of purchase, and Ariens Company will repair or replace any such part or accessory free of charge, except for labor, during that period.
- Batteries are warranted only for a period of twelve (12) months after date of purchase, on a prorated basis. For the first ninety (90) days of the warranty period, a defective battery will be replaced free of charge. If the applicable warranty period is more than 90 days, Ariens Company will cover the prorated cost of any defective battery, for up to twelve (12) months after the date of purchase.

Ariens may from time to time change the design of its products. Nothing contained in this warranty shall be construed as obligating Ariens to incorporate such design changes into previously manufactured products, nor shall such changes be construed as an admission that previous designs were defective.

LIMITATION OF REMEDY AND DAMAGES

Ariens Company's liability under this warranty, and under any implied warranty that may exist, is limited to repair of any defect in workmanship, and repair or replacement of any defective part. Ariens 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.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

The following items are excluded from this warranty:

- Engines and enty and are not covered by this warranty.
- Hydro-Gear transmissions and/or Hydro-Gear drive components are covered only by the Hydro-Gear warranty and are not covered by this warranty.
- Parts that are not genuine Ariens or Gravelly brand service parts are not covered by this warranty.
- Except as specifically warranted, normal maintenance, services, and normal replacement items, such as spark plugs, oil, oil filters, air filters, mufflers, belts, tires, shoes, runners, scraper blades, shear bolts, mower blades, mower vanes, headlights, light bulbs, knives, etc. are not covered by this warranty except as noted below.
- Mufflers, belts, and tires on consumer lawn and garden products are warranted to the **original purchaser** for two years.
- Friction discs, idlers, cables, and electrical components on Sno-Thros put to usual personal household use are warranted to the **original purchaser** for two years.
- Any defect which is the result of misuse, alteration, improper assembly, improper adjustment, neglect, or accident is not covered by this warranty.

This warranty applies only to products purchased in the United States (including Puerto Rico) and Canada. In all other countries, contact place of purchase for warranty information.

DISCLAIMER 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.



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WARNING



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