

# ZT™

Operator's Manual  
Manuel du Utilisateur



# GRAVELLY

## Models

915210 – ZT 34  
(SN 000101 +)

915232 – ZT 42 CARB  
(SN 000101 +)

915212 – ZT 42  
(SN 000101 +)

915234 – ZT 50 CARB  
(SN 000101 +)

915214 – ZT 50  
(SN 000101 +)

915232 – ZT 42 CARB  
(SN 000101 +)

915208 – ZT 34 CARB  
(SN 000101 +)

915234 – ZT 50 CARB  
(SN 000101 +)

915244 – ZT 34  
(SN 000101 +)

915246 – ZT 42  
(SN 000101 +)



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# INTRODUCTION

## 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.gravely.com](http://www.gravely.com) para obtener una lista de idiomas disponibles para su equipo.



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

<http://www.gravely.com>

## 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.

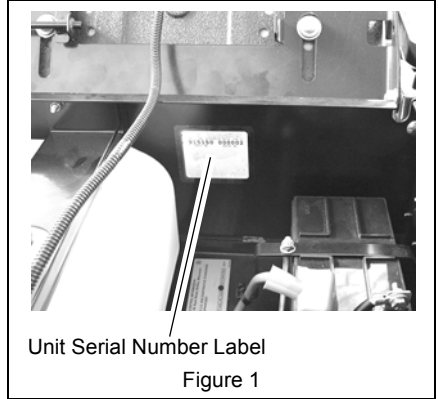
## ENGINE MANUAL

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.

## MODEL AND SERIAL NUMBERS

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

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



Unit Serial Number Label

Figure 1

- Record unit model and serial numbers here.

- Record engine model and serial numbers here.

## PRODUCT REGISTRATION

The Gravely 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 Gravely or go to [www.gravely.com](http://www.gravely.com) on the Internet.

## UNAUTHORIZED REPLACEMENT PARTS

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

**NOTICE:** A complete Parts manual may be downloaded from [www.gravelly.com](http://www.gravelly.com) on the Internet.

## DELIVERY

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

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

**NOTE:** To locate your nearest Gravelly dealer, go to [www.gravelly.com](http://www.gravelly.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.gravelly.com](http://www.gravelly.com)

## DISCLAIMER

Gravelly 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.

## 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.

## REQUIRED OPERATOR TRAINING



Read and understand the Operator's Manual and decals on the unit. This information is for your safety and the proper use of your equipment. Failure to follow these

instructions and warnings may cause death or serious injury. If you have purchased this product from an Gravelly dealer, the dealer can provide you with training.

Familiarize yourself and any other operators with all controls and the safe use of the features of this unit. If you loan, rent or sell this product to others, provide them with all manuals.

If you have any questions, please call our customer support line at 920-756-4688 or contact us at [www.gravelly.com](http://www.gravelly.com). Do not use this equipment if, after reading the Operator's Manual and the on-board decals, you have any questions about the safe use of this product.

## SAFETY ALERTS



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



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

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



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



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



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

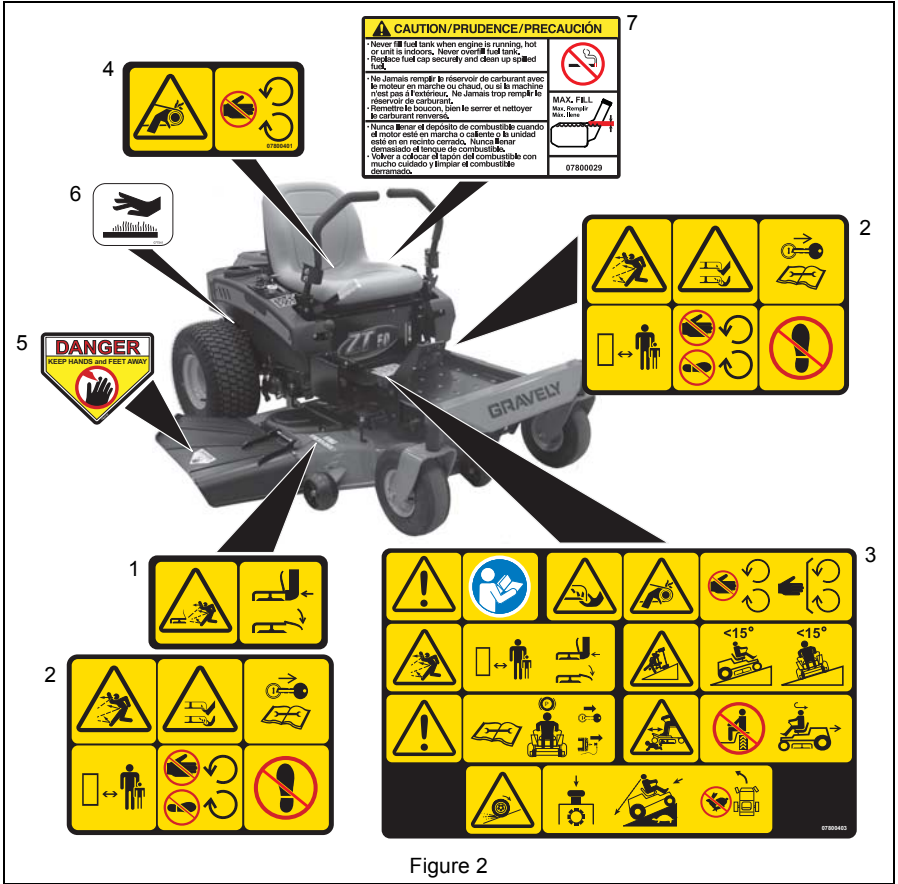
## NOTATIONS

**NOTICE:** 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!



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



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

## 2. DANGER!



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



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



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



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



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



DO NOT step or stand in this area.

## 3. DANGER!



DANGER!



Read and understand the operator's manual before operating unit.

### 3.1 Amputation Hazard



To avoid amputation hazard do not put hands near rotating blades.



To avoid amputation hazard do not put hands near moving belts.



Keep hands away from all rotating or moving parts.



Keep all guards and shields in place.

### 3.2 Discharge Hazard



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



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



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

### 3.3 Tipping Hazard



Avoid tipping hazard.



DO NOT operate on slopes over 15°.



DO NOT operate on slopes over 15°.

### 3.4 Service Hazard



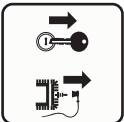
Before servicing unit do the following:



Read owners manual before servicing or making adjustments to unit.



Set parking brake.



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

### 3.5 Bystander Hazard



DO NOT operate the unit in the presence of bystanders.



Do not carry passengers.

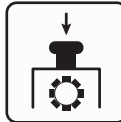


Look behind when operating the unit in reverse.

### 3.6 Loss of Traction Hazard



If loss of traction is experienced do the following:



Disengage PTO.



Proceed off slope slowly.



Do not try to turn or speed up.

### 4. DANGER!



To avoid amputation hazard do not put hands near moving belts.



Keep hands away from all rotating or moving parts.

### 5. DANGER!



DANGER!



ALWAYS Keep hands and feet away from discharge chute.



Dismemberment Hazard - NEVER put hands or feet beneath guards and or shields.

## 6. DANGER!

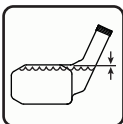


DO NOT touch parts which are hot from operation. ALWAYS allow parts to cool.

## 7. CAUTION!



No smoking.



**IMPORTANT:** DO NOT overfill.  
Fill fuel tank to below bottom of filler neck.



**WARNING:** Overfilling may cause severe damage to evaporative system!

- Never fill fuel tank when engine is running, hot or unit is indoors. Never overfill fuel tank.
- Replace fuel cap securely and clean up spilled fuel.

## Safety Rules

The following safety instructions are based on ISO 5395 and the B71.1 specifications of the American National Standards Institute in effect at the time of production.

### Training

Read, understand, and follow all instructions on the machine and in the manual(s) before starting.

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

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

Understand:

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

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

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

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

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

### Operator Age

DO NOT allow children under the age of 18 to operate any outdoor power equipment.

Local regulations may restrict the age of the operator.

Data indicates operators age 60 years and above are involved in a large percentage of riding mower-related injuries.

These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.



<b>Children</b>
Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. NEVER assume that children will remain where you last saw them.
Be alert and turn machine off if a child enters the area.
Before and while backing, look behind and down for small children.
NEVER carry children, even with the blade(s) shut off. They may fall off and be seriously injured or interfere with safe machine operation. Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the machine.
NEVER allow children to operate the machine.
Use extreme care when approaching blind corners, shrubs, trees or other objects that may block your view of a child.
Keep children out of the mowing area and in the watchful care of a responsible adult other than the operator.

<b>Personal Protection</b>
DO NOT wear loose clothing or jewelry and tie back hair that may get caught in rotating parts.
Wear adequate outer garments.
NEVER wear open sandals or canvas shoes during operation. Wear adequate safety gear, protective gloves and footwear.
Wear proper footwear to improve footing on slippery surfaces.
ALWAYS wear eye and ear protection when operating machine.

<b>Before Operating</b>
Keep all nuts and bolts tight to be sure the equipment is in safe working condition.
Maintain the machine to be in compliance with the maintenance schedule.
Clean grass and debris from unit, especially from around muffler and engine, to help prevent fires.
Check parking brake operation frequently. Adjust and service as required.

Inspect unit before each use for missing or damaged decals and shields, correctly operating safety interlock system, and deterioration of grass catchers. Replace or repair as needed.
Ensure Safety Interlock System is functioning properly. DO NOT operate unit if safety interlock is damaged or disabled.
Start and operate unit only when seated in operator's position. Steering control levers must be in neutral, PTO disengaged and parking brake set when starting engine.
NEVER interfere with the intended function of a safety device or reduce the protection provided by a safety device. Check their proper operation regularly.
Keep machine free of grass, leaves or other debris build-up. Clean up oil or fuel spillage and remove any fuel-soaked debris.

<b>Operation</b>
Be sure the area is clear of bystanders before operating. Stop machine if anyone enters the area.
NEVER operate machine in a closed or poorly-ventilated area.
ALWAYS maintain unit in safe operating condition. Damaged or worn out muffler can cause fire or explosion.
This product is equipped with an internal combustion type engine. DO NOT use unit on or near any unimproved, forest-covered or brush-covered land unless exhaust system is equipped with a spark arrester meeting applicable local, state or federal laws. A spark arrester, if it is used, must be maintained in effective working order by operator.
DO NOT operate machine while feeling tired, ill or under the influence of alcohol or other drugs.
DO NOT put hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.
DO NOT touch parts which are hot. Allow parts to cool.
DO NOT operate machine without the entire grass catcher, discharge guard or other safety devices in place and working.
ALWAYS keep hands and feet away from all pinch points.
Avoid slippery surfaces. ALWAYS be sure of your footing.
NEVER carry passengers.

NEVER direct discharged material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blade(s) when crossing gravel surfaces.
NEVER engage PTO when attachment, including mower blades, is not in use. ALWAYS turn off power to attachment when not in active use such as traveling or crossing driveways.
ALWAYS disengage PTO, stop unit and engine, remove key, engage parking brake and allow moving parts to stop before leaving operator's position.
NEVER engage PTO while raising the attachment, including mower blades, or when attachment is in the raised position.
Keep safety devices or guards in place and functioning properly. NEVER modify or remove safety devices.
DO NOT mow in reverse unless absolutely necessary. ALWAYS look down and behind before and while backing.
Stop engine before removing grass catcher or unclogging chute.
Slow down before turning.
If you strike a foreign object, stop and inspect the machine. Repair, if necessary, before restarting.
NEVER leave a running machine unattended. ALWAYS turn off blade(s), set parking brake, stop engine and remove key before dismounting.
Disengage blade(s) when not mowing. Shut off engine and wait for all parts to come to a complete stop before cleaning the machine, removing the grass catcher, or unclogging the discharge guard.
Know the weight of loads. Limit loads to those you can safely control and the unit can safely handle.

<b>Operating Conditions</b>
Lightning can cause severe injury or death. If lightning is seen or thunder is heard in the area, do not operate the machine; seek shelter.
ALWAYS check overhead and side clearances carefully before operation.
Watch for traffic when operating near or crossing roadways.
Clear the area of objects such as rocks, wire, toys, etc., which could be thrown by the blades.

Check for weak spots on docks, ramps or floors. Avoid uneven work areas and rough terrain. Stay alert for hidden hazards or traffic.
Use care when approaching blind corners, shrubs, trees or other objects that may obscure vision.
Dust, smoke, fog, etc. can reduce vision and cause an accident.
Operate machine only in daylight or good artificial light.

<b>Slope Operation</b>
Slopes are a major factor related to loss of control and tip-over accidents, which can result in severe injury or death. Operation on all slopes requires extra caution. If you cannot back up the slope or if you feel uneasy on it, DO NOT mow it.
DO NOT operate on slopes of more than 15°.
Mow up and down slopes, not across.
ALWAYS keep the machine in gear when going down slopes. DO NOT shift to neutral and coast downhill.
Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
DO NOT mow on moist or wet grass. Tires may lose traction causing a loss of control.
Use extra care while operating machine with grass catchers or other attachments; they can affect the stability of the machine. DO NOT use on steep slopes.
Keep all movements on the slope <i>slow</i> and <i>gradual</i> . DO NOT make sudden changes in speed or direction, which could cause the machine to roll over.
Avoid starting, stopping, or turning on a slope. If the tires lose traction, disengage the blade(s) and proceed slowly straight down the slope.
Operation on slopes may lead to loss of steering control. When operating on slopes be prepared to react to an emergency situation: <ul style="list-style-type: none"> <li>• Return steering levers to neutral position.</li> <li>• Immediately set parking brake.</li> <li>• Turn off PTO and engine.</li> </ul>
DO NOT try to stabilize the machine by putting your foot on the ground.

DO NOT park on slopes unless necessary. When parking on slope ALWAYS chock or block wheels. ALWAYS set parking brake.
Choose a low ground speed so you will not have to stop or shift while on a slope.
DO NOT mow near drop-offs, ditches, or embankments. The machine could suddenly roll over if a wheel goes over the edge or if the edge caves in.
DO NOT bypass transmission or allow transmission to free-wheel when on a slope.

<b>Fuel</b>
To avoid personal injury or property damage, use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive.
Ethanol blends must not exceed E10. Higher ethanol content may cause your machine to run hotter and damage your engine.
Replace fuel cap securely and clean up spilled fuel before starting engine.
Extinguish all cigarettes, cigars, pipes and other sources of ignition.
Use only an approved gasoline container.
NEVER store the machine or fuel container where there is an open flame, spark or pilot light such as on a water or space heater or other appliances.
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.
NEVER fuel the machine indoors.
NEVER remove gas cap or add fuel with the engine running. Allow engine to cool before fueling.
Fuel is highly flammable and its vapors are explosive. Handle with care. Use only an approved gasoline container with an appropriately-sized dispensing spout. NO smoking, NO sparks, NO flames.
Remove gas-powered equipment from the trailer and refuel it on the ground. If this is not possible, then refuel such equipment with a portable container, rather than from a gasoline dispenser nozzle.
Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until the fueling is complete. DO NOT use a nozzle lock-open device.

NEVER overfill fuel tank. Replace gas cap and tighten securely.
If fuel is spilled on clothing, change clothing immediately.

<b>Towing</b>
Follow the manufacturer's recommendations for weight limits for towed equipment and towing on slopes.
NEVER allow children or others in or on towed equipment.
Tow only with a machine that has a hitch designed for towing. DO NOT attach towed equipment except at the hitch point.
On slopes, the weight of the towed equipment may cause loss of traction and loss of control.
Travel slowly and allow extra distance to stop.

<b>Accessories</b>
Follow the manufacturer's recommendation for wheel weights or counterweights
Check grass catcher components and the discharge guard frequently and replace with the manufacturer's recommended parts, when necessary.
Use only Ariens Company-recommended attachments that are appropriate to your use and can be used safely in your application.

<b>Batteries</b>
Avoid electric shock. Objects contacting both battery terminals at the same time may result in injury and unit damage. DO NOT reverse battery connections.
Reverse connections may result in sparks which can cause serious injury. ALWAYS connect positive (+) lead of charger to positive (+) terminal, and negative (-) lead to negative (-) terminal.
ALWAYS disconnect negative (-) cable FIRST and positive (+) cable SECOND. ALWAYS connect positive (+) cable FIRST, and negative (-) cable SECOND.
Explosive gases from battery can cause death or serious injury. Poisonous battery fluid contains sulfuric acid and its contact with skin, eyes or clothing can cause severe chemical burns.
No flames, No sparks, No smoking near battery.

ALWAYS wear safety glasses and protective gear near battery. Use insulated tools.
ALWAYS keep batteries out of reach of children.
Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer and reproductive harm. Wash hands after handling.

### Service

The use of non-genuine replacement parts or accessories could adversely affect machine operation and safety.
Do not change engine governor setting or overspeed the engine.
Maintain or replace safety and instruction labels as necessary.
Keep unit free of debris. Clean up oil or fuel spills.
ALWAYS block wheels and know all jack stands are strong and secure and will hold weight of unit during maintenance.
Release any pneumatic or hydraulic pressure from components slowly.
NEVER attempt to make any adjustments to unit while engine is running (except where specifically recommended). Stop engine, remove key and spark plug wire and wait for all moving parts to stop before servicing or cleaning.
Lower cutting deck unless a positive mechanical lock is used.
Allow engine to cool before servicing.
Moving parts can cut or amputate fingers or a hand. On multiblade mowers, rotation of one blade will cause all blades to rotate.
NEVER weld or straighten mower blades.
NEVER make adjustments or repairs with the engine running.
Mower blades are sharp. Wrap the blade or wear gloves, and use extra caution when servicing them.
ALWAYS keep body and hands away from pin holes or nozzles which eject hydraulic fluid under pressure.

### Transporting Unit

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

### Storage

NEVER store unit with fuel in fuel tank inside a building where any ignition sources are present.
Keep machine free of grass, leaves or other debris build-up. Clean up oil or fuel spillage and remove any fuel-soaked debris. Allow machine to cool before storing.
For extended storage, close fuel shut off valve and clean unit thoroughly. See engine manual for proper storage.

## ASSEMBLY



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

### Tools Required

- Adjustable wrenches
- Petroleum jelly or dielectric grease

### Unpack Unit

1. Remove unit and all other components from the shipping container.
2. Engage transmission bypass lever. See *Moving Unit Manually* on page 20.
3. Push unit from container onto a level surface.
4. Disengage transmission bypass lever.
5. Cut all packaging cable ties on unit and discard.
6. Remove packaging material from unit and discard.

### Connect Battery

See *Install Factory-Installed Battery* on page 27 and perform steps 4 and 6 in the installation section.

### Place Unit in Operating Position

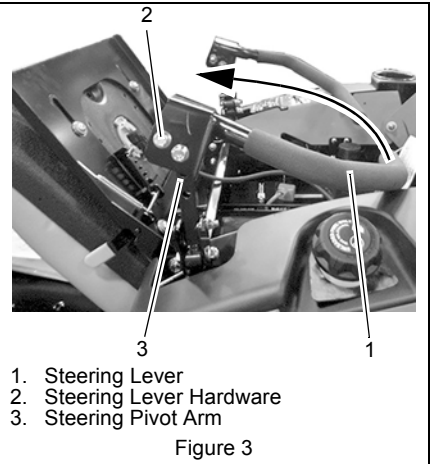
(Figure 3)

**NOTE:** The unit is shipped with the seat positioned as far forward as possible and in service position.

1. Remove steering lever hardware from bottom hole of the steering lever.
2. Rotate steering lever forward to align bottom hole with hole in pivot arm and reinstall hardware.

**NOTE:** Do not tighten hardware before reviewing *Adjusting Steering Levers* on page 29. If no adjustment is desired, tighten hardware.

3. Cut all packaging cable ties on unit and discard.
4. Push steering levers aside and tip seat into operating position.
5. Adjust the seat as needed. See *Seat Adjustment* on page 17.



1. Steering Lever
2. Steering Lever Hardware
3. Steering Pivot Arm

Figure 3

### Check Engine Oil Level

Refer to Engine Manual.

### Check Tire Pressure



**CAUTION:** Avoid injury!

Explosive separation of tire and rim parts is possible when they are serviced incorrectly:

- Do not attempt to mount a tire without the proper equipment and experience to perform the job.
- Do not inflate the tires above the recommended pressure.
- Do not stand in front or over the tire assembly when inflating. Use a clip-on chuck and extension hose long enough to allow you to stand to one side.

See Specifications on page 36.

## **Level Mower Deck**

See *Leveling and Adjusting Pitch of Mower Deck* on page 24.

## **Fill Fuel Tank**

Fill fuel tank. **DO NOT OVERFILL!** See *Filling Fuel Tank* on page 18.

## **Check Safety Interlock System**



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

See *Safety Interlock System* on page 16.

## **Check Function of all Controls**

See *Operation* on page 16.

## CONTROLS AND FEATURES

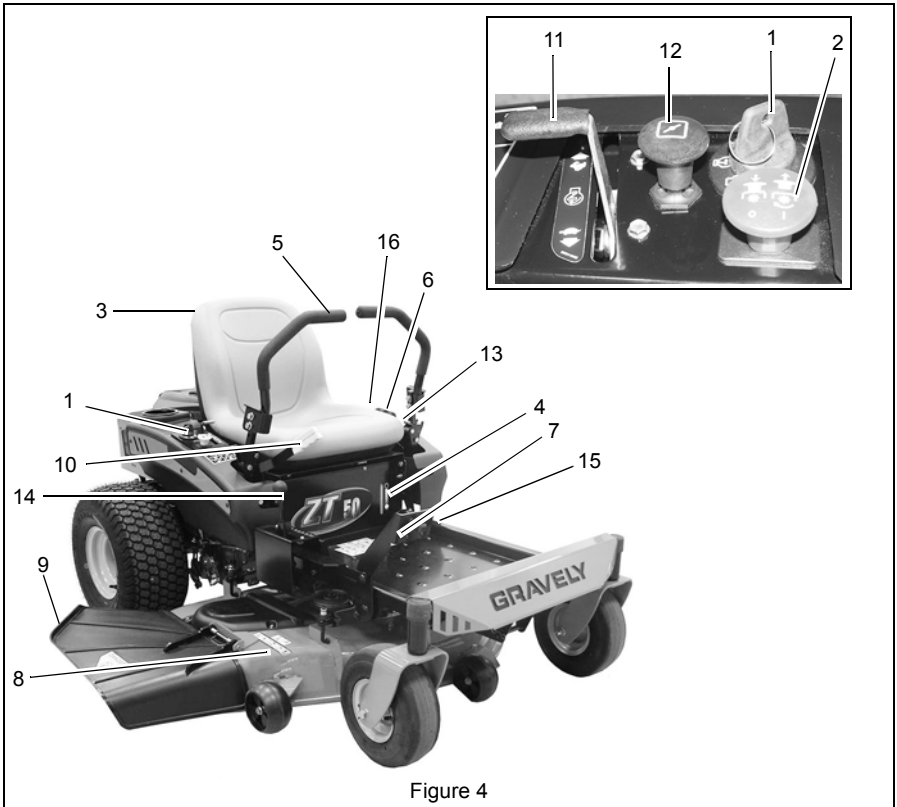


Figure 4

1. Ignition Switch
2. PTO Switch
3. Seat
4. Fuel Level
5. Steering Levers (2)
6. Fuel Tank
7. Mower Lift Pedal
8. Mower Deck
9. Discharge Chute
10. Parking Brake Lever
11. Throttle Lever
12. Choke
13. Seat Adjustment Lever (Models 915212, 915214, 915232, 915234, 915246)
14. Height of Cut Selector Lever
15. Washout Port (Models 915212, 915214, 915232, 915234, 915246)
16. Carbon Canister (Models 915208, 915232, 915234)

# OPERATION



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

## CONTROLS AND FEATURES

See Figure 4 for all controls and features locations.

## Safety Interlock System



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

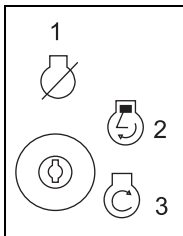
Perform the following tests to ensure the safety interlock system is working properly. If the unit does not perform as stated contact your Gravelly dealer for repairs.

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

\* Test with engine running.

+ Operator lifts off seat.

### Ignition Switch



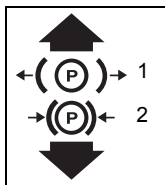
Operate ignition switch with a removable key. Ignition switch has three positions: Stop (1), Run (2), Start (3). See *Starting and Shutting Off Engine* on page 19 for detailed instructions on how to start engine.

### Choke



Pull choke control out to start a cold engine.  
Push choke control in when engine is warm.

### Parking Brake Lever



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

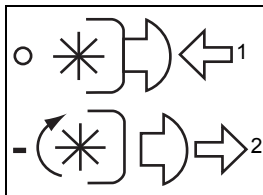
### Throttle



Fast (1) – Increases engine speed.

Slow (2) – Decreases engine speed.

### Power Take-Off (PTO) Switch

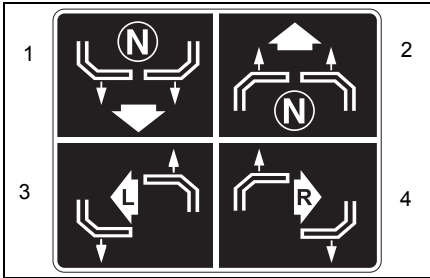


Engages (2) and disengages (1) mower blades.



## Steering Levers

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



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

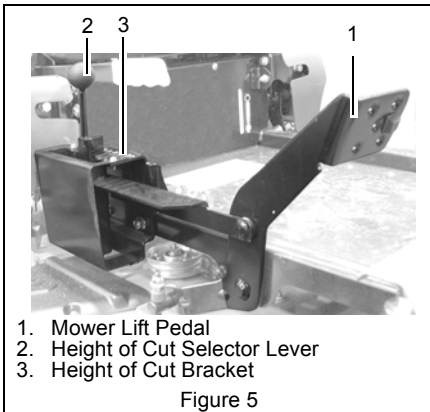
**NOTE:** The steering levers must be in the neutral position to start the engine.

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

## Height of Cut

(Figure 5)

1. Press the mower Gravelly lift pedal to raise the deck.
2. Position height of cut selector lever at the desired setting in the height of cut bracket.
3. Release mower lift pedal.



## Seat Adjustment

**Models 915212, 915214, 915232, 915234, 915246**

(Figure 6)

Push lever back and slide seat forward or backward to the desired position. Release lever to lock seat in position.

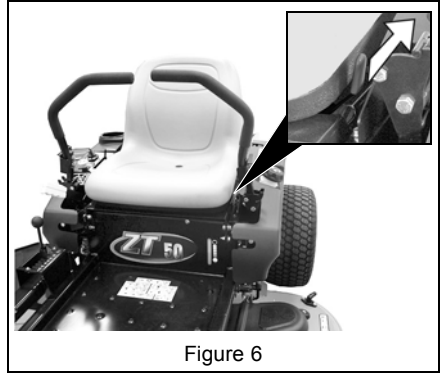


Figure 6

## Seat Adjustment

**Models 915208, 915210, 915244**

1. Tip the seat forward. See *Tipping Seat Forward* on page 23.
2. Loosen mounting hardware and slide seat forward or backward to desired position. Tighten mounting hardware (figure 9).
3. Tip seat back.

## Washout Port

**Models 915212, 915214, 915232, 915234, 915246**

(Figure 7)

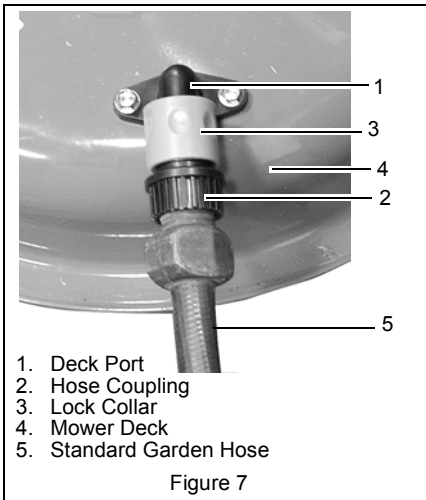


**WARNING:** A broken or missing deck port can result in exposure to harmful thrown objects or blade contact.

Replace broken or missing deck port before using unit.

**NEVER** put your hands or feet under the mower or through openings in the mower.

**NOTICE:** Wash the underside of the mower after each use to prevent grass buildup and improve mulch action and clipping dispersal.



1. Park the unit on a level surface, within reach of hose and in a location where the dispersal of wet grass clippings is acceptable.
2. Disengage the PTO switch, shut off the engine, remove key, engage parking brake and allow unit to cool for at least 30 minutes.

**IMPORTANT:** Do not wash the unit with water when the unit is warm from operation. Water can seep into bearings and cause damage.

3. Attach the hose coupling to a standard garden hose connected to a water supply.
4. Pull back the lock collar of the hose coupling and push the coupling onto the deck port until the coupling is tightly in place. Release the lock collar to lock the coupling to the deck port.

**NOTICE:** Apply petroleum jelly to washout fitting O-ring to allow the coupling to slide on easier and to protect the O-ring.

**NOTICE:** The coupling contains a valve that will not allow water flow unless coupling is attached to washout fitting. Water supply should be turned off before attaching coupling to the fitting.

5. Lower deck to lowest cutting height.
6. Turn the water supply on high.

**NOTICE:** If water leaks excessively from hose coupling onto top of deck, coupling may not be fully seated onto washout port. Turn off water supply and repeat steps 4 through 6. Use firm pressure while installing coupling onto washout port.



**WARNING:** When using the deck wash system, NEVER engage the deck from any position other than the operator's seat.  
DO NOT engage deck in the presence of ANY bystander.

7. From the operators seat, start the engine and engage the PTO. Allow unit to run as needed - typically 2 to 3 minutes.

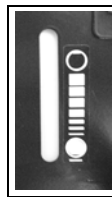
**NOTICE:** Water spraying from discharge chute should change from green to clear when deck is clean.

8. Disengage the PTO, turn off engine, remove key and wait for all moving parts to stop.
9. Turn the water supply off and remove coupling from the washout fitting.

**NOTICE:** If the mower deck is not clean after one washing, soak it and let stand for 30 minutes. Then repeat process.

10. After cleaning the mower deck, run the unit again for 2 to 3 minutes to remove access water.

## Fuel Level



Slot in seat plate shows the fuel level in the tank. Refill when level reaches bottom of slot.

## FILLING FUEL TANK

**IMPORTANT:** DO NOT OVERFILL!

To add fuel to the fuel tank:

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

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

3. Fill fuel tank to the bottom of filler neck. See *SPECIFICATIONS* on page 36 for fuel tank capacity.

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

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

## GASOLINE

Use fresh unleaded fuel with an octane rating of at least 87. DO NOT use E85 blended fuels; the engine is not E20 / E30 / E85 compatible. The maximum recommended ethanol content is 10%.

**NOTICE:** 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.

## STOPPING IN AN EMERGENCY



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

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

**NOTE:** This unit is equipped with the return to neutral function. The control arms will automatically return gradually to neutral when released from the forward position.

## STARTING AND SHUTTING OFF ENGINE

### Starting the Engine

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

1. If the engine is cold, apply choke. If the engine is warm or hot, do not use choke. See on page 16.

**IMPORTANT:** DO NOT operate starter for more than 10 seconds per minute as damage can occur.

2. Turn ignition key to start position and release once the engine has started.
3. Let the engine warm up several seconds to several minutes depending on outside temperature.

### Stopping the Engine

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

## OPERATING MOWER

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

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

3. Engage PTO to start mower blades. It will take 2 – 3 seconds for the blades to engage.

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

4. Release parking brake.

5. Use steering levers to move the unit.
6. Disengage PTO to stop mower blades.

## TRANSPORTING UNIT

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

## FOR BEST PERFORMANCE

- Cut grass when it is dry.
- Keep mower blades sharp.
- Keep mower deck properly leveled.
- Do not set height of cut too low. For very tall grass, mow twice.
- Do not travel too fast.
- Mow with the engine set at full throttle.
- When mulching, only remove one-third of grass length per cutting.
- Discharge clippings into areas already cut.
- Vary cutting pattern with each mowing.
- Do not allow grass or debris to collect inside of mower deck. Clean after each use.

## MOVING UNIT MANUALLY

(Figure 8)



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

Pull the bypass lever out and lock it in place and then release the parking brake to push the unit by hand.

Push the bypass lever in to drive the unit normally.

**NOTICE:** There are two bypass levers (one on each side of the unit).



1. Bypass lever pulled out to push the unit by hand.
2. Bypass lever pushed in to drive the unit.

Figure 8



## MAINTENANCE SCHEDULE

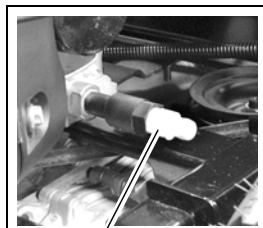


**WARNING:** AVOID INJURY. Read and understand the entire *Safety* section before proceeding.

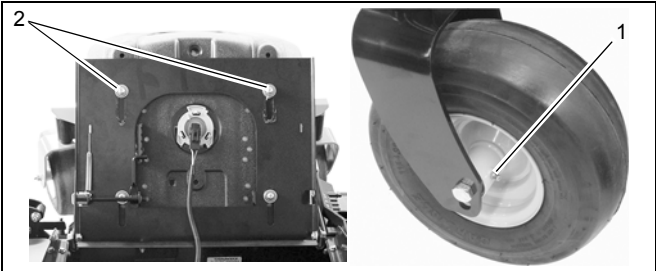
**IMPORTANT:** Proper maintenance can prolong the life of unit. The following chart shows the recommended service schedule. Refer to the maintenance instructions in the Engine Manual for additional information.

**NOTICE:** To have full access to the engine, the seat must be tipped forward (see *Tipping Seat Forward* on page 23) and the hood opened (see *Mower Deck Removal and Installation* on page 23).

Interval	Task	Action
<b>Each Use</b>	Check Safety Interlock System	 <p><b>WARNING:</b> 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 16.</p>
	Check Parking Brake	Engage parking brake and engage transmission bypass lever. See <i>Moving Unit Manually</i> on page 20. Push unit. If unit rolls, contact your Gravely dealer.
	Clean Unit	<p>Clean engine, battery, seat, etc. of all dirt and debris. Do not use solvents, hard cleaners, or abrasives. For deck cleaning instructions, see <i>Washout Port</i> on page 17.</p> <p><b>NOTE:</b> Protect painted surfaces with automotive type wax.</p> <p><b>IMPORTANT:</b> Do not spray the unit with water, especially when the unit is warm from operation.</p>
	Check Tires	<p>See Specifications on page 36 for correct tire pressure.</p>  <p><b>CAUTION:</b> Avoid injury! Explosive separation of tire and rim parts is possible when they are serviced incorrectly:</p> <ul style="list-style-type: none"> <li>• Do not attempt to mount a tire without the proper equipment and experience to perform the job.</li> <li>• Do not inflate the tires above the recommended pressure.</li> <li>• Do not stand in front or over the tire assembly when inflating. Use a clip-on chuck and extension hose long enough to allow you to stand to one side.</li> </ul>
	Check Mower Blades	Check for worn or damaged mower blades. See <i>Sharpening Mower Blade</i> on page 26.
<b>Each Use</b>	Follow Engine Manual Maintenance Schedule	<p>Perform scheduled engine maintenance. Refer to Engine Manual for detailed instructions.</p> <p><b>NOTICE:</b> To drain the oil, remove oil drain cap and attach the oil drain hose, supplied in the lit pack, to the drain plug. Rotate the drain to the left to allow oil to drain. Turn the drain to the right to close.</p>



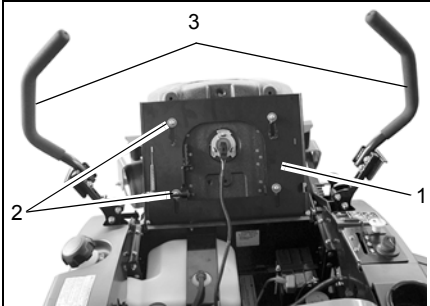
Oil Drain Plug

Interval	Task	Action
25 Hours or Every Season	Check Battery	Keep battery and battery terminals clean. See <i>Cleaning Battery and Battery Cables</i> on page 28.
	Lubricate Unit	<ol style="list-style-type: none"> <li>1. Apply grease to zerk (1) on each front wheel.</li> <li>2. Apply grease to quick adjust seat mechanism through slots (2) on bottom side of seat plate. Work grease into mechanism by sliding seat back and forth repeatedly.</li> </ol> 
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 values.
50 Hours or Every Season	Check Carbon Canister Filter (Models 915208, 915232, 915234)	Clean or replace carbon canister filters whenever the engine air filter is cleaned or replaced. See <i>Carbon Canister Filter</i> on page 29.
100 Hours or Every Season	Check All Belts	Replace worn or deteriorated belts. <ul style="list-style-type: none"> <li>• Check hydrostatic belt. See <i>Replacing Hydrostatic Belt</i> on page 31 for hydrostatic belt location.</li> <li>• Check PTO belt. See <i>Replacing PTO Belt</i> on page 30 for PTO belt location.</li> </ul>

## SERVICE AND ADJUSTMENTS



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



1. Seat Tipped Forward
2. Mounting Hardware
3. Steering Levers

Figure 9

## TIPPING SEAT FORWARD

(Figure 9)

Move steering levers to neutral position and rotate handles outward. Tip seat forward.

## MOWER DECK REMOVAL AND INSTALLATION

### Remove

(Figure 10)

1. Remove PTO belt from the engine drive pulley. See *Replacing PTO Belt* on page 30.
2. Disconnect drag link from the front deck bracket.
3. Disconnect front and rear trunnions from the lift arms on both sides of the unit by removing the 3/8" nuts. Keep hardware for reinstallation.
4. Slide mower deck out from under unit.

### Install

(Figure 10)

1. Slide mower deck under unit.
2. Connect drag link to front deck bracket.
3. Connect front and rear trunnions to the lift arms on both sides of the unit using 3/8" nuts.
4. Install PTO belt on the engine drive pulley. See *Replacing PTO Belt* on page 30.
5. Level and adjust pitch of mower deck. See *Leveling and Adjusting Pitch of Mower Deck* on page 24.

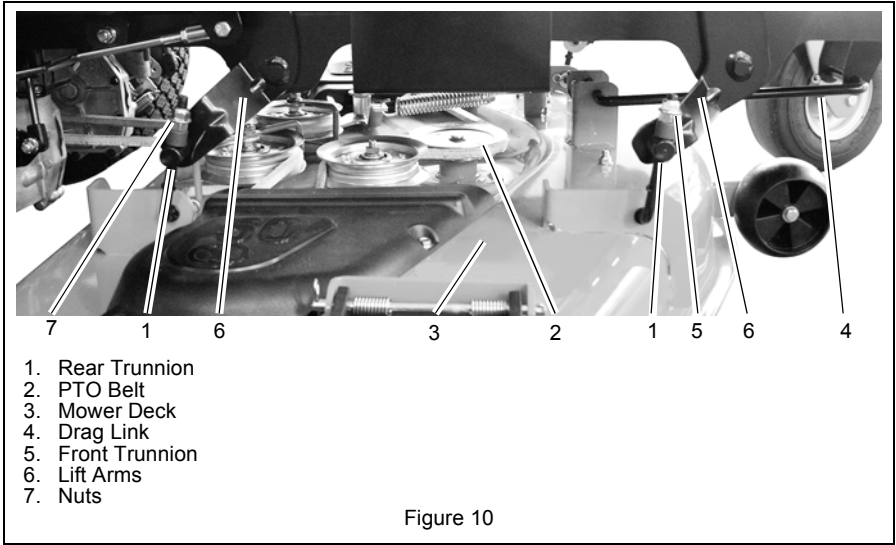


Figure 10

## LEVELING AND ADJUSTING PITCH OF MOWER DECK

Pitch is the difference in blade height from front to back or from side to side.

Adjust on a level surface with the tires inflated to the correct air pressure. See Specifications on page 36.

Three measurements are required to level and adjust the pitch of the mower deck:

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

### The Distance From The Mower Blades To The Ground

(Figure 11)

- In the lowest cutting position should be  $3.2\text{ cm} \pm 0.6\text{ cm}$  ( $1\frac{1}{2}'' \pm 1/4''$ ).
- In the highest cutting position should be  $10.8\text{ cm} \pm 0.6\text{ cm}$  ( $4\frac{1}{2}'' \pm 1/4''$ ).

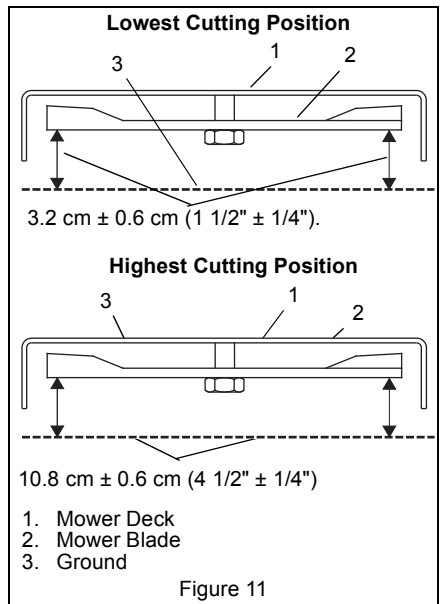


Figure 11

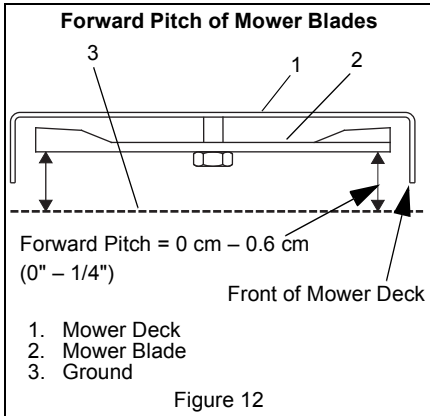


## The Forward Pitch Of The Mower Blades

(Figure 12)

- Front tip of blades should be 0 cm – 0.6 cm (0" – 1/4") lower than the rear of the blades.

**NOTICE:** This measurement must be taken when the mower blade ends point forward.

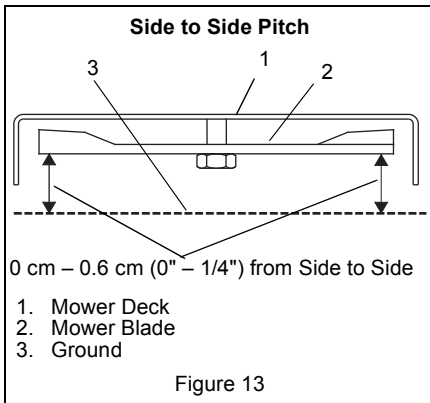


## The Pitch Of The Mower Blades From Side To Side

(Figure 13)

- Should be within 0 cm – 0.6 cm (0" – 1/4") as measured on each side of the mower deck.

**NOTICE:** This measurement must be taken when the mower blade ends point left and right.



## Adjusting The Mower Deck To Adjust Mower Blade Height And Pitch

(Figure 14)

**NOTICE:** Adjusting the mower deck will adjust the height and pitch of the mower blades.

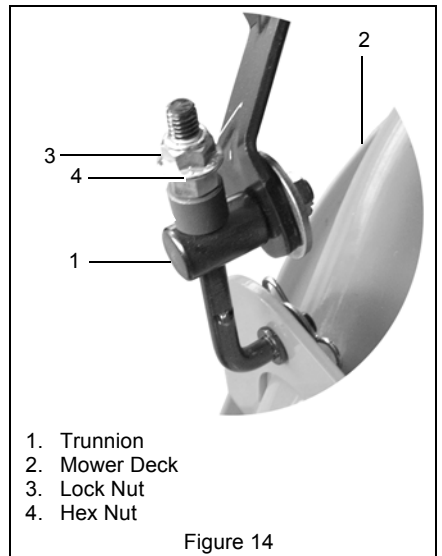
1. Adjust the trunnions first and re-take the three measurements required to level and adjust the pitch of the mower deck. These measurements are:
  - a. The distance from the mower blades to the ground.
  - b. The forward pitch of the mower blades.
  - c. The pitch of the mower blades from side to side.

Adjust Trunnions:

1. Using an adjustable or open ended wrench tighten or loosen the lock nut on top.

**NOTICE:** To avoid over-adjustment note which nuts have been adjusted and the amount each has been loosened or tightened.

2. Using the same tool, tighten the bottom hex nut to raise the deck OR loosen the bottom hex nut to lower the deck.
3. Tighten the lock nut on top to secure the link in the desired location.
4. Repeat step 1 as needed until all three measurements (a, b, and c) are within the tolerances specified.



## REPLACING MOWER BLADE

### Remove

(Figure 15)



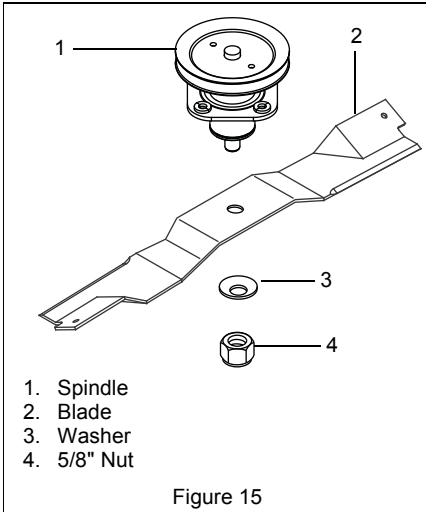
**CAUTION:** Mower blades are sharp and can cut you. Wrap the blades or wear gloves and use extra caution when servicing them.

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

### Install

(Figure 15)

1. Install mower blades on spindles with mounting hardware.
2. Torque 5/8" nut to 136 N•m to 163 N•m (100 lb-ft – 120 lb-ft).



## SHARPENING MOWER BLADE



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

1. Remove mower blade from unit. See *Replacing Mower Blade* on page 26.

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

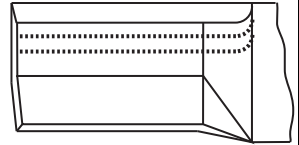
Discard mower blade if (Figure 16):

- more than 1.3 cm (1/2") of metal is removed.
- the air lift erosion area is eroded.
- the mower blade is bent or broken.

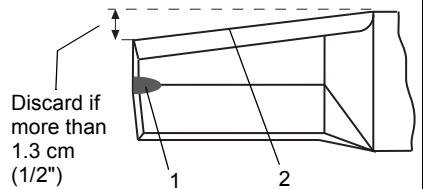
Do not change angle of cutting edge or round the corner at the end of mower blade.

2. Sharpen mower blade by removing an equal amount of material from each end of mower blade.
3. Check mower blade balance by sliding mower blade on an unthreaded bolt. If blade is balanced, it should remain in a horizontal position. If either end of mower blade moves downward, sharpen the heavy end until mower blade is balanced.
4. Install mower blade on unit. See *Replacing Mower Blade* on page 26.

DO NOT sharpen to this pattern.



Sharpen to this pattern.



1. Air Lift Erosion
2. Cutting Edge

Figure 16

## SERVICING YOUR BATTERY

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



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

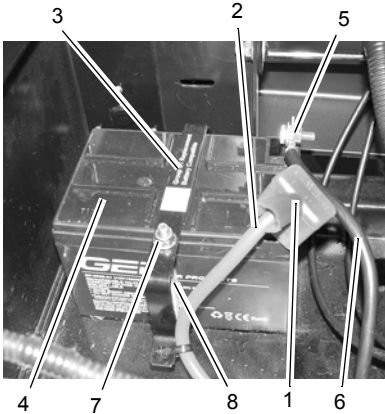
## FACTORY-INSTALLED BATTERY REMOVAL AND INSTALLATION

### Remove Factory-Installed Battery

(Figure 17)

1. Lower deck to the lowest cutting height.
2. Tip seat forward. See *Tipping Seat Forward* on page 23.
3. Disconnect negative (-) cable first, then positive (+) cable.

**NOTICE:** Do not cut cable tie securing positive cable to battery hold-down bracket unless installing U1 battery.



1. Positive (+) Terminal
2. Positive (+) Cable
3. Battery Hold-Down Bracket
4. Battery
5. Negative (-) Terminal
6. Negative (-) Cable
7. Nut
8. Bolt

Figure 17

4. Remove nut and bolt securing battery hold down bracket. Save for reinstallation.

**NOTICE:** The bolt securing the battery is mounted through the underside of the frame. Place hand beneath frame to catch loose bolt.

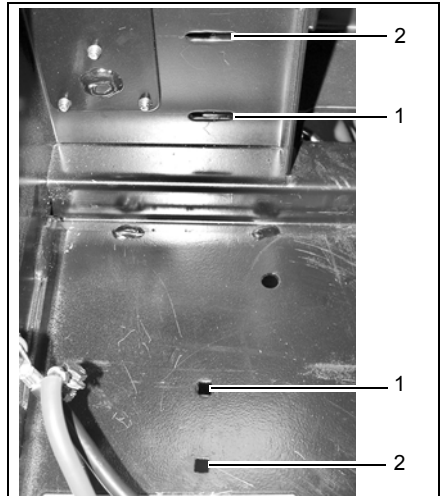
5. Remove battery from unit.

### Install Factory-Installed Battery

(Figure 17)

1. Tip seat forward. See *Tipping Seat Forward* on page 23.
2. Set battery inside the frame, underneath the seat with battery terminals positioned as shown (Figure 17).
3. Place battery hold down bracket on top of the battery. Hook the curved end of the bracket in the lower mounting hole in the wall of the frame (Figure 18).
4. Position bolt through the mounting hole nearest to the battery and through mounting bracket. Secure with nut.

**IMPORTANT:** Tighten nut until battery is secure and will not move or rattle during operation. DO NOT overtighten.



1. Factory Battery Mounting Hole
2. U1 Battery Mounting Hole

Figure 18

5. Connect positive (+) cable first, then negative (-) cable.
6. Apply petroleum jelly or dielectric grease to battery cable ends and terminals.
7. Tip seat back. See *Tipping Seat Forward* on page 23.

## U1 Battery Installation

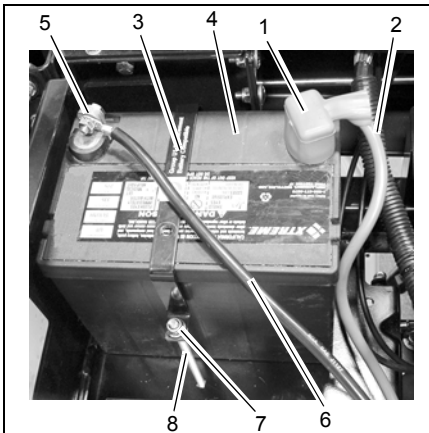
(Figures 18 and 19)

1. Remove factory battery. See *Remove Factory-Installed Battery* on page 27.

**NOTICE:** Be sure to cut cable tie connecting positive battery cable to battery hold down bracket.

2. Set battery inside the frame, underneath the seat with terminals positioned as shown (Figure 19).
3. Place battery hold down bracket on top of the battery. Attach the curved end of the bracket in the upper mounting hole in the wall of the frame (Figure 18).
4. Position bolt through the mounting hole nearest to the battery and through mounting bracket. Secure with nut.

**IMPORTANT:** Tighten nut until battery is secure and will not move or rattle in the frame.



1. Positive (+) Terminal
2. Positive (+) Cable
3. Battery Hold-Down Bracket
4. Battery
5. Negative (-) Terminal
6. Negative (-) Cable
7. Nut
8. Bolt

Figure 19

5. Connect positive (+) cable first, then negative (-) cable.
6. Apply petroleum jelly or dielectric grease to battery cable ends and terminals.
7. Tip seat back. See *Tipping Seat Forward* on page 23.

## Cleaning Battery and Battery Cables

(Figure 17)

1. Tip seat forward. See *Tipping Seat Forward* on page 23.
2. Disconnect negative (-) cable first, then positive (+) cable.
3. Clean battery cable ends, negative (-) terminal, and positive (+) terminal with a wire brush and rinse with a weak baking soda solution.
4. Connect positive (+) cable first, then negative (-) cable.
5. Apply petroleum jelly or dielectric grease to battery cable ends and terminals.
6. Tip seat back. See *Tipping Seat Forward* on page 23.

## 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.

**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 *Factory-Installed Battery Removal and Installation* on page 27.
2. Place battery in a well-ventilated area.
3. Connect positive (+) lead of charger to positive (+) terminal, and negative (-) lead of charger to negative (-) terminal.
4. Charge battery according to battery charger and battery manufacturers' instructions.
5. Install battery on unit. See *Factory-Installed Battery Removal and Installation* on page 27.

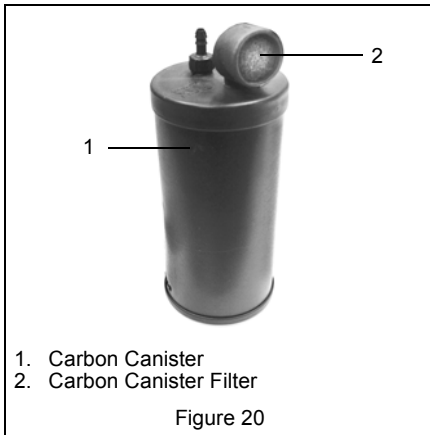
## Jump-Starting

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

## CARBON CANISTER FILTER

Models 915208, 915232, 915234

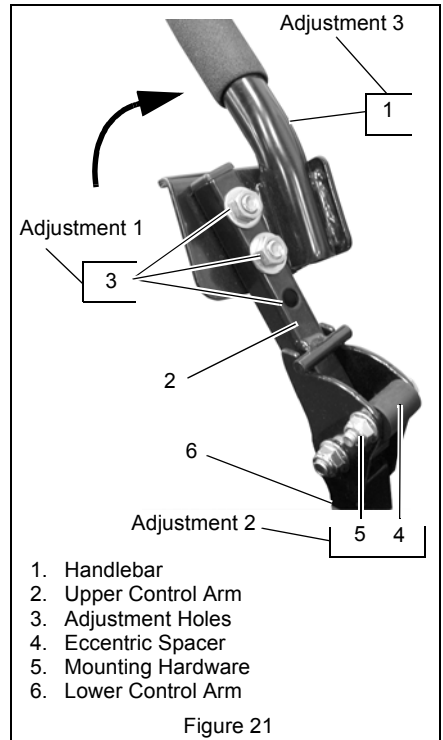
(Figure 20)



Clean or replace the carbon canister filter whenever the engine air filter is cleaned or replaced.

## ADJUSTING STEERING LEVERS

(Figure 21)



**IMPORTANT:** Adjust each steering lever equally.

**NOTICE:** When adjusting steering levers for the first time it is recommended that you make adjustments in the following order.

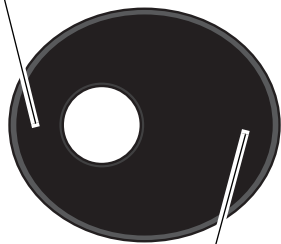
### 1. Adjust Steering Lever Height

1. Remove mounting hardware that attaches the handlebars to the upper control arm. Move handlebar up or down until the handlebar mounting holes are aligned with the preferred adjustment holes.
2. Install mounting hardware and tighten.

### 2. Adjust Steering Lever Width

1. Loosen hardware at the base of the lower control arm (item 5).
2. Rotate eccentric spacer to move the levers away from or closer to the operators position (figure 22).
3. Tighten hardware.

Rotate this end away from the operator position to move the steering levers in.



Rotate this end away from the operator position to move the steering levers out.

Figure 22

### 3. Adjust Steering Lever Forward or Backward

1. Loosen, do not remove, the bolts securing the handlebar to the upper control arm.
2. Rotate steering lever forward or backward to desired position and tighten bolts.

**NOTICE:** Tighten upper bolt first.

#### Forward Speed Adjustment

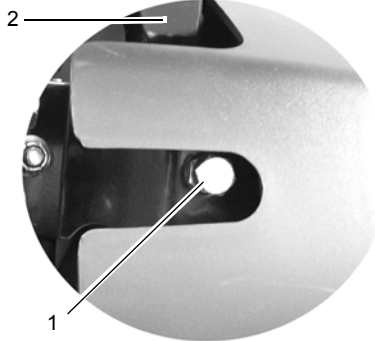
(Figure 23)

The travel of the steering levers may need adjustment if the unit turns to the right or left when both steering levers are pushed as far forward as possible. The unit should track within 0.6 m (2') of a straight line for 9.1 m (30').

The side the unit turns toward indicates that the drive wheel on that side is turning slower than the opposite drive wheel. Either the wheel that is turning faster needs to slow down or the wheel that is turning slower needs to speed up to allow the unit to travel in a straight line.

**IMPORTANT:** Check tire pressure before making adjustments. Incorrect or inconsistent pressure between tires may cause unit to track incorrectly.

1. Determine which way the unit turns.
2. Loosen jam nut on the adjustment bolt.
3. Adjust speed by:
  - Turning adjustment bolt clockwise to decrease steering lever travel.
  - Turning adjustment bolt counterclockwise to increase steering lever travel.
4. Tighten the jam nut.



1. Forward Travel Adjustment Bolt
2. Lower Control Arm

Figure 23

**NOTICE:** Reverse speed cannot be adjusted. If unit tracks excessively left or right in reverse, see your dealer for repair.

### REPLACING PTO BELT

#### Remove

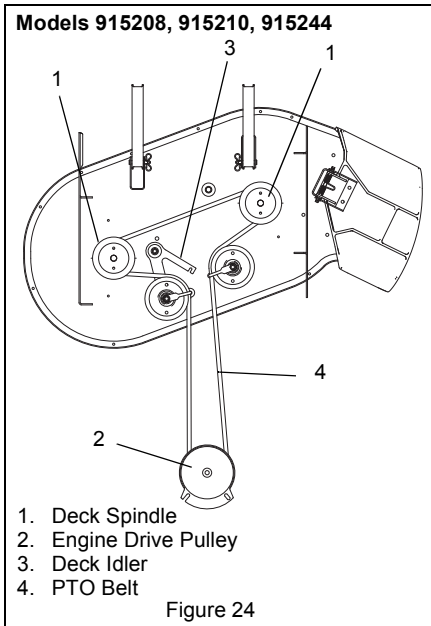
(Figure 24)

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



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

3. Rotate idler arm clockwise until tension is removed from PTO belt.
4. Remove PTO belt from left mower deck pulley.
5. Slowly release idler arm until tension is removed from idler spring.
6. Remove PTO belt from mower deck and engine drive pulley.



3. Slowly release idler arm until idler pulley rests firmly against PTO belt.

4. Install belt covers on mower deck.

**NOTICE:** Ensure that belt is still positioned in the groove of the sheaves after belt covers are installed.

## REPLACING HYDROSTATIC BELT

### Remove

(Figure 26)

- Remove PTO belt. See *Replacing PTO Belt* on page 30.



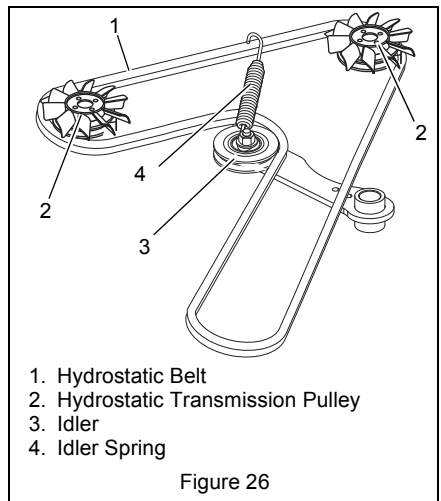
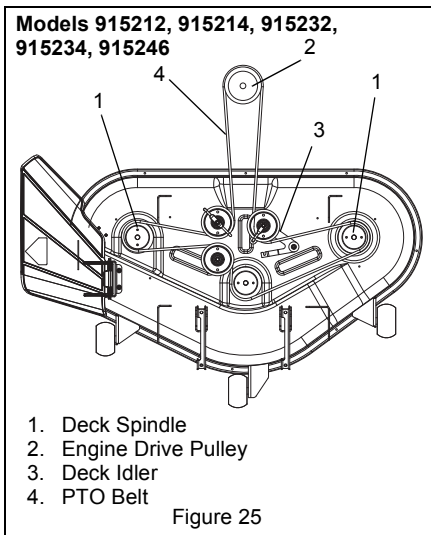
**CAUTION:** Use care when releasing idler spring tension. Keep body parts well away from idler when performing this operation.

- Disconnect idler spring.
- Remove hydrostatic belt from hydrostatic transmission pulleys, drive pulley and idler.

### Install

(Figure 26)

- Install hydrostatic belt on idler, drive pulley and hydrostatic transmission pulleys.
- Connect idler spring.
- Install PTO belt. See *Replacing PTO Belt* on page 30.



### Install

(Figure 24)

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

- Install PTO belt on engine drive pulley and mower deck.
- Rotate idler arm clockwise until PTO belt can be routed around left mower deck pulley.

# 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.

Refer to Engine Manual for the proper engine storage procedures.

Touch up all scratched or chipped paint surfaces.

## Fuel System

Gasoline left in the fuel system for extended periods without a stabilizer will deteriorate, resulting in gum deposits in the system.

These deposits can damage the carburetor and the fuel hoses, filter and tank. Prevent deposits from forming in the fuel system during storage by adding a quality fuel stabilizer to the fuel. Follow the recommended mix ratio found on the fuel stabilizer container.

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

## Add Fuel Stabilizer

1. Drain fuel from fuel tank.
2. Allow the engine to run until it stops.  
Turn engine OFF when it begins surging to avoid engine damage.
3. Add fuel stabilizer to fuel, following the manufacturer's instructions. See *SERVICE PARTS* on page 35.
4. Pour fuel into the tank.
5. Re-start engine.
6. Run the engine outdoors for 1 to 2 minutes to be sure that treated gasoline has replaced the untreated gasoline in the carburetor.
7. Slow the engine to an idle speed.
8. Repeat step 2.



# TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE	CORRECTION
Engine will not crank/start.	<ol style="list-style-type: none"> <li>1. Safety interlock system is not engaged or is faulty.</li> <li>2. Fuel tank is empty.</li> <li>3. Discharged battery.</li> <li>4. Poor connection between battery and battery cables.</li> <li>5. Spark plug wire(s) loose or spark plug(s) faulty.</li> <li>6. Faulty electrical system.</li> <li>7. Faulty engine.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check safety interlock system. See <i>Safety Interlock System</i> on page 16.</li> <li>2. Fill fuel tank. See <i>Filling Fuel Tank</i> on page 18.</li> <li>3. Charge battery. See <i>Charging the Battery</i> on page 28.</li> <li>4. Tighten battery cables and/or clean battery and battery cables. See <i>Cleaning Battery and Battery Cables</i> on page 28.</li> <li>5. Connect spark plug wire(s) or replace spark plug(s). Refer to Engine Manual for detailed instructions.</li> <li>6. Contact your Gravelly dealer.</li> <li>7. Contact your Gravelly dealer.</li> </ol>
Engine runs rough.	<ol style="list-style-type: none"> <li>1. Choke engaged.</li> <li>2. Air filter cartridge plugged.</li> <li>3. Faulty engine.</li> </ol>	<ol style="list-style-type: none"> <li>1. Disengage choke.</li> <li>2. Clean or replace air filter cartridge. Refer to Engine Manual for detailed instructions.</li> <li>3. Contact your Gravelly dealer.</li> </ol>
Unit does not move with engine running when using steering levers.	<ol style="list-style-type: none"> <li>1. The transmission bypass lever is engaged.</li> <li>2. Faulty hydrostatic belt.</li> <li>3. Faulty transmission.</li> </ol>	<ol style="list-style-type: none"> <li>1. Disengage transmission bypass lever. See <i>Moving Unit Manually</i> on page 20.</li> <li>2. Replace hydrostatic belt. See <i>Replacing Hydrostatic Belt</i> on page 31.</li> <li>3. Contact your Gravelly dealer.</li> </ol>
PTO or mower blades do not engage or shut off.	<ol style="list-style-type: none"> <li>1. Operator presence switch not depressed.</li> <li>2. Faulty operator presence switch.</li> <li>3. Faulty PTO belt.</li> <li>4. Faulty PTO switch, wires, connectors, or clutch.</li> </ol>	<ol style="list-style-type: none"> <li>1. Depress operator presence switch by sitting on seat.</li> <li>2. Contact your Gravelly dealer.</li> <li>3. Replace PTO belt. See <i>Replacing PTO Belt</i> on page 30.</li> <li>4. Contact your Gravelly dealer.</li> </ol>
Engine overheats.	<ol style="list-style-type: none"> <li>1. Engine oil level low.</li> <li>2. Cooling system plugged.</li> <li>3. Faulty engine.</li> </ol>	<ol style="list-style-type: none"> <li>1. Add engine oil. Refer to Engine Manual for detailed instructions.</li> <li>2. Clean cooling system. Refer to Engine Manual for detailed instructions.</li> <li>3. Contact your Gravelly dealer.</li> </ol>
Unit moves with engine off and parking brake engaged.	<ol style="list-style-type: none"> <li>1. The parking brake needs adjustment.</li> <li>2. Faulty parking brake.</li> </ol>	<ol style="list-style-type: none"> <li>1. Contact your Gravelly dealer.</li> <li>2. Contact your Gravelly dealer.</li> </ol>

PROBLEM	PROBABLE CAUSE	CORRECTION
Unit does not travel in a straight line.	<ol style="list-style-type: none"> <li>1. Incorrect tire pressure.</li> <li>2. Steering levers need adjustment.</li> <li>3. Hydrostatic transmission and/or linkage needs adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check tire pressure. See Specifications on page 36.</li> <li>2. Adjust steering levers. See <i>Forward Speed Adjustment</i> on page 30.</li> <li>3. Contact your Gravely dealer.</li> </ol>
Unit creeps with steering levers in neutral position.	<ol style="list-style-type: none"> <li>1. Hydrostatic transmission and/or linkage needs adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>1. Contact your Gravely dealer.</li> </ol>
Poor cutting quality.	<ol style="list-style-type: none"> <li>1. Mower deck not level or mower pitch is incorrect.</li> <li>2. Dull or faulty mower blades.</li> </ol>	<ol style="list-style-type: none"> <li>1. Level and adjust pitch of mower deck. See <i>Leveling and Adjusting Pitch of Mower Deck</i> on page 24.</li> <li>2. Sharpen mower blades (see <i>Sharpening Mower Blade</i> on page 26) or replace mower blades (see <i>Replacing Mower Blade</i> on page 26).</li> </ol>

## SERVICE PARTS

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

Part No.	Description
51519500	34- and 50-Inch Spindle Assembly
51520900	42-Inch Spindle Assembly
07100124	Front Wheel
07200116	34-Inch Deck Belt
07200010	HA Raw Laminated Belt – Hydraulic Drive
03971900	34-Inch Mower Blade
03797300	34-Inch Mulching Blade
04265400	42-Inch Mower Blade
07200523	42-Inch Deck Belt
03971900	50-Inch Mower Blade
07200524	50-Inch Deck Belt
04730300 04742400	Fuel Stabilizer – 118 ml (4 oz) <ul style="list-style-type: none"><li>• Except Canada</li><li>• For Canada Only</li></ul>
20967800	Spark Plug (Models 915208, 915210)
21562200	Spark Plug (Models 915212, 915214, 915232, 915234)
21500009	Spark Plug (Models 915244, 915246)
21541500	Fuel Filter (Models 915208, 915210, 915212, 915244, 915246) (Model 915214 serial 000101 – 000999, 1501 +)
21545700	Fuel Filter (Model 915214 serial number 1000 – 1500, Models 915232, 915234)
21541400	Oil Filter
21555500	Air Filter (Exc. Model 915214 serial number 1000 – 1500)
21545800	Air Filter (Model 915214 serial number 1000 – 1500)

## ACCESSORIES

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

Part No.	Description
71503300	36-Inch Roller
71503400	48-Inch Dethatcher
71503600	Spreader
71508200	48-Inch Aerator
71510800	34-Inch Mulch Kit
71510900	Trailer Hitch Kit
71513000	Washout Port Kit (Models 915208, 915210, 915244)
81513400	34-Inch Non-Powered Bagger
81514200	42-Inch Non-Powered Bagger
81515000	50-Inch Non-Powered Bagger
71513100	42-Inch Mulch Kit
71513200	50-Inch Mulch Kit

## SPECIFICATIONS

Model Number	915210	915212	915214
<b>Model</b>	ZT 34	ZT 42	ZT 50
<b>Engine</b>			
Type	Kohler 6000 Series	Kohler 7000 Series	
Engine Displacement – cm <sup>3</sup> (in <sup>3</sup> )	660 (40.3)	726 (44.3)	
Maximum RPM – No Load	3600 + 0 / - 100		
<b>Drive</b>			
Forward Max. – km/h (mph)	9.6 (6.0)		
Reverse Max. – km/h (mph)	4.8 (3.0)		
Turning Radius	Zero		
Brakes	Internal Transmission		
Transmission	Hydrostatic Drive		
<b>Electrical</b>			
Starter	Electric		
Battery	12V Maintenance Free 190 CCA		
PTO (Power Take-Off)	Electric Clutch		
<b>Fuel</b>			
Fuel Type	Refer to Engine Manual		
Fuel Tank Capacity – L (gal)	7.5 (2.0)		
<b>Size and Weight</b>			
Length – cm (in)	165.1 (65)		
Width – cm (in)	114.3 (45)	137.2 (54)	157.5 (62)
Weight – kg (lbs)	202 (446)	225 (495)	230 (506)
Height – cm (in)	102 (40)		106.7 (42)
<b>Tires</b>			
Front Tire Size – in	11 x 4-5		
Rear Tire Size – in	18 x 6.5-8	18 x 8.5-8	18 x 9.5-8
Front Tire Pressure – kPa (psi)	317 (46)		
Rear Tire Pressure – kPa (psi)	69.0 (10.0)		
<b>Mower Deck</b>			
Cutting Height – cm (in)	3.8 – 11.4 (1.5 – 4.5)		
Cutting width – cm (in)	86 (34)	106.7 (42)	127 (50)
<b>Max. Towing Capacity – kg (lbs)</b>	136 (300)		
<b>Max. Tongue Weight – kg (lbs)</b>	13.6 (30)		

# SPECIFICATIONS

<b>Model Number</b>	<b>915208</b>	<b>915232</b>	<b>915234</b>
<b>Model</b>	ZT 34 CARB	ZT 42 CARB	ZT 50 CARB
<b>Engine</b>			
Type	Kohler 6000 Series	Kohler 7000 Series	
Engine Displacement – cm <sup>3</sup> (in <sup>3</sup> )	660 (40.3)	725 (44.2)	
Governed RPM (May be different from maximum RPM)	3600 ± 75		
<b>Drive</b>			
Forward Max. – km/h (mph)	9.6 (6.0)		
Reverse Max. – km/h (mph)	4.8 (3.0)		
Turning Radius	Zero		
Brakes	Internal Transmission		
Transmission	Hydrostatic Drive		
<b>Electrical</b>			
Starter	Electric		
Battery	12V Maintenance Free 190 CCA		
PTO (Power Take-Off)	Electric Clutch		
<b>Fuel</b>			
Fuel Type	Refer to Engine Manual		
Fuel Tank Capacity – L (gal)	7.5 (2.0)		
<b>Size and Weight</b>			
Length – cm (in)	165.1 (65)		
Width – cm (in)	114.3 (45)	137.2 (54)	157.5 (62)
Weight – kg (lbs)	202 (446)	225 (495)	230 (506)
Height – cm (in)	102 (40)		106.7 (42)
<b>Tires</b>			
Front Tire Size – in	11 x 4-5		
Rear Tire Size – in	18 x 6.5-8	18 x 8.5-8	18 x 9.5-8
Front Tire Pressure – kPa (psi)	317 (46)		
Rear Tire Pressure – kPa (psi)	69.0 (10.0)		
<b>Mower Deck</b>			
Cutting Height – cm (in)	3.8 – 11.4 (1.5 – 4.5)		
Cutting width – cm (in)	86 (34)	106.7 (42)	127 (50)
<b>Max. Towing Capacity – kg (lbs)</b>	136 (300)		
<b>Max. Tongue Weight – kg (lbs)</b>	13.6 (30)		

# SPECIFICATIONS

<b>Model Number</b>	<b>915244</b>	<b>915246</b>
<b>Model</b>	ZT 34	ZT 42
<b>Engine</b>		
Type	Kohler 6000 Series	
Engine Displacement – cm <sup>3</sup> (in <sup>3</sup> )	660 (40.3)	
Maximum RPM – No Load	3600 + 0 / - 100	
<b>Drive</b>		
Forward Max. – km/h (mph)	9.6 (6.0)	
Reverse Max. – km/h (mph)	4.8 (3.0)	
Turning Radius	Zero	
Brakes	Internal Transmission	
Transmission	Hydrostatic Drive	
<b>Electrical</b>		
Starter	Electric	
Battery	12V Maintenance Free 190 CCA	
PTO (Power Take-Off)	Electric Clutch	
<b>Fuel</b>		
Fuel Type	Refer to Engine Manual	
Fuel Tank Capacity – L (gal)	7.5 (2.0)	
<b>Size and Weight</b>		
Length – cm (in)	165.1 (65)	
Width – cm (in)	114.3 (45)	137.2 (54)
Weight – kg (lbs)	202 (446)	225 (495)
Height – cm (in)	102 (40)	
<b>Tires</b>		
Front Tire Size – in	11 x 4-5	
Rear Tire Size – in	18 x 6.5-8	18 x 8.5-8
Front Tire Pressure – kPa (psi)	317 (46)	
Rear Tire Pressure – kPa (psi)	69.0 (10.0)	
<b>Mower Deck</b>		
Cutting Height – cm (in)	3.8 – 11.4 (1.5 – 4.5)	
Cutting width – cm (in)	86 (34)	106.7 (42)
<b>Max. Towing Capacity – kg (lbs)</b>	136 (300)	
<b>Max. Tongue Weight – kg (lbs)</b>	13.6 (30)	



# Outdoor Power Equipment Limited Warranty

Ariens Company (Ariens) warrants to the **original purchaser** that Gravelly brand products purchased on or after 3/16/2018 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 "Residential 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 Gravelly dealer will repair any defect in material or workmanship, and repair or replace any defective part, subject to the conditions, limitations and exclusions set forth herein. Such repair or replacement will be free of charge (labor and parts) to the original purchaser; except as noted below. Pick-up and delivery are at the owner's expense.

The warranty code is found on the model and serial number identification label on the unit.

Warranty Code	Product Group	Warranty Period
<b>Products Purchased Prior to 3/16/2018</b>		
CA	Pro-Turn 100, Pro-Turn 200, Compact-Pro, Pro-Stance and Pro-Walk Mowers	3 Years Residential Use. 2 Years Commercial Use.
CD	Pro-Turn 400 Mowers	3 Years Residential Use. 3 Years Commercial Use (Years 1 & 2: Parts & Labor, Year 3: Parts Only).
CF	Pro-Turn Mowers	3 Years Residential Use. 2 Years or 1000 Hours* Commercial Use.
CG	Pro-QXT, Two-wheel Tractors	2 Years.
<b>Products Purchased on or After 3/16/2018</b>		
CH	Pro-Turn Z and Pro-Turn ZX Mowers	4 Years or 750 Hours.*
CG,CJ	Pro-QXT	4 Years or 500 Hours.*
CA, CK	Compact-Pro and Pro-Walk Hydro Mowers	4 Years or 750 Hours.* No Hour Limit for First 2 Years.
CA, CL	Pro-Turn 100 and Pro-Stance Mowers	5 Years or 1000 Hours.* No Hour Limit for First 2 Years.
CA, CM	Pro-Turn 200 Mowers	5 Years or 1250 Hours.* No Hour Limit for First 2 Years.
CD, CN	Pro-Turn 400 Mowers	5 Years or 1500 Hours.* No Hour Limit for First 2 Years.
CO	Pro-Walk Gear Mowers	2 Years.
CP	Pro-Turn Mowers	4 Years or 1000 Hours.*
<b>Products Not Affected by Purchase Date</b>		
AA	Serialized Attachments	1 Year.
AB	Serialized Attachments	2 Years.
HA	ZT, ZT-X and ZT-XL Mowers	3 Years Residential Use. 90 Days Commercial Use.
HB	ZT-HD Mowers	3 Years Residential Use. 1 Year Commercial Use.
UG	Atlas JSV	1 Year.

\* Whichever comes first.

## Special Extensions

The chart below details special **extensions** to warranty terms. Warranty terms are total time periods covered. If any product is rented or leased, there are no extensions to the 90-day warranty.

Warranty Code	Warranty Term Extension	Warranty Period	Detail
CA, CD, CL, CM, CN, CO	Mower Deck Shell and Main Frame	Lifetime Limited for Residential and Commercial Use.	Warranty is for parts only after the initial warranty period. Components are covered for manufacturer's defect only, not wear.
CH	Gravelly V-Twin Engine	4 Years or 500 Hours* for Residential and Commercial Use.	
HA, HB	Mower Deck Shell and Main Frame	5 Years Limited Residential Use. No Commercial Warranty.	Years 1 – 3 parts and labor. Years 4 – 5 parts only.

\* Whichever comes first.

## Exclusions and Limitations

The charts below detail special **exclusions and limitations** to this warranty.

Warranty Term Exclusions	Warranty Period
Air filters, brake arms, brake linings, brake shoes, brushes, cutters, fuel filters, headlights, knives, light bulbs, lubricants, mower blades, oil, oil filters, spark plugs, scraper blades, shear bolts, skid shoes and spoon tines.	Components are not covered under warranty.

### Hydro-Gear Transaxle Limitation

See Hydro-Gear warranty. The warranty is administrated by Ariens Company.

Warranty Term Limitations	Warranty Period
Cloth, Plastic and Rubber Components. Mufflers, Tires, Belts and Cables.	2 Years Residential Use. No Commercial Warranty. Components are covered for manufacturer's defect only, not wear.

### Exclusions – Items Not Covered by This Warranty

- Parts that are not genuine Gravelly service parts are not covered by this warranty and may void the warranty if the parts result in premature wear or damage to the product.
- Damages resulting from the installation or use of any part, accessory, or attachment which is not approved by the Ariens Company for use with product(s) identified herein are not covered by this warranty.
- Any misuse, alteration, improper assembly, improper adjustment, neglect, or accident which requires repair is not covered by this warranty.
- Repairs or adjustments required due to failure to use fresh fuel or failure to properly prepare the unit for periods of non-use.
- **Use of gasoline blends exceeding 10% ethanol voids any and all warranties.**
- Products are designed to the specifications in the area that the product was originally distributed. Different areas may have significantly different legal and design requirements. This warranty is limited to the requirements in the area in which the unit was originally distributed. 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.

### Evaporative Emissions Control Warranty Exception

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

The CARB and EPA evaporative emissions control system warranty is described in a separate evaporative emission control warranty statement.



## Special Exclusions for Job-site Vehicles

The following uses void the warranty terms on Atlas JSV (Warranty Code UG) vehicles:

- Renting or leasing the vehicle.
- Using the vehicle to tow or carry loads in excess of the limits specified in the operator's manual.
- Modifying the vehicle with parts and accessories that are not genuine or authorized Gravelly parts or accessories.
- Modifying the vehicle without express written authorization from Gravelly.
- Operating the vehicle when it has not been completely and properly assembled and pre-delivered by an authorized Gravelly dealer.

## Pro-Rated Battery Warranty

Battery warranty is pro rated for one year and is based on the total cost for battery replacement. Units used for rental or lease have no exceptions to the 90-day warranty. Total battery reimbursement will not exceed 45.00 USD.

Months	% Coverage
1 – 3	100
4	75
5	66.6

Months	% Coverage
6	58.3
7	50.0
8	41.6

Months	% Coverage
9	33.3
10	25.0
11	16.6
12	8.3

## Engines

The chart below details engine warranty information. Engine warranty terms may vary from the specific terms of this warranty. If inconsistent, the terms of the engine warranty shall apply to the engine and its component parts.

Engine Manufacturer	Detail
Gravelly V-Twin	Gravelly- and Yamaha-branded engines are warranted by the manufacturer and the warranty is administrated by Ariens Company. Refer to the engine manual for warranty statements.
Yamaha	
Briggs & Stratton, Kawasaki, Kohler, Subaru	Covered by the engine manufacturer's warranty. Refer to the engine manufacturer's warranty statements.

## Parts and Accessories

Service replacement parts and non-serialized accessories are warranted for 90 days from date of purchase. Parts and accessories must be installed by an authorized Gravelly dealer to be covered. Labor is not included.

## Customer Responsibilities

**Register the product immediately at the time of sale.** If the dealer does not register the product, the customer must register the unit on-line at [www.gravelly.com](http://www.gravelly.com).

To obtain warranty service, the **original purchaser** must:

- Ensure that the maintenance and adjustments explained in the Operator's Manual are routinely completed.
- Promptly notify Ariens Company or an authorized Gravelly 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 Gravelly service representative.

To find an authorized dealer use the dealer locator on our websites, or contact us by mail or phone.

Globally except Australia or New Zealand:	Australia or New Zealand:
Ariens Company 655 W. Ryan Street Brillion, WI 54110 Phone: (920) 756 - 4688 <a href="http://www.gravelly.com">www.gravelly.com</a>	Allpower Industries Pty Ltd 128 Bridge Rd Keysborough VIC 3173 Australia Phone: +61 1800 333 428 <a href="http://www.allpower.com.au">www.allpower.com.au</a>

## **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.*





**GRAVELY.**

655 West Ryan Street  
Brillion, WI 54110

[www.gravely.com](http://www.gravely.com)

**WARNING**

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

An *Ariens* Company Brand

