



## *Warrior*

### TO OUR CUSTOMER:

*Thank you for purchasing an EverRide Warrior Zero Turn Mower. We believe that you have exercised excellent judgment in your selection. The Warrior has been designed to give you many years of satisfactory service. Successful operation and long life depends on proper maintenance and correct operating techniques.*

*Before you received your unit, the dealer has performed a pre-delivery inspection. The dealer will discuss with you the features, operation and maintenance requirements. Your dealer will always be there to help you any time you need assistance or need equipment related to the use of your EverRide mower.*

*We recommend that you carefully read this entire manual before operating the unit. This operator's manual has been printed to provide you with safe operating techniques, proper maintenance procedures, correct assembly, and parts identification on your EverRide Zero Turn Mower. Keep this manual handy for future reference.*

*Should any assistance be needed in understanding any section of this manual, contact your EverRide products dealer.*

*This equipment is covered by a written warranty which will be provided to you in the pages following.*

EverRide reserves the right to make changes or add improvements to its products without incurring any obligation to make such changes to products manufactured previously. EverRide, or its dealers, accept no responsibility for variations which may be evident in the actual specifications of its products and the statements and descriptions contained in the publication.



## OWNER'S WARRANTY INFORMATION

This warranty applies to the original retail purchaser of the EverRide products only. The warranty period starts upon the date of the original purchase reflected on the sales invoice.

As a condition to this warranty, the owner/operator shall have read, understood and followed the operator's manual guidelines for operations and maintenance supplied with this product, and that the product registration shall have been mailed to EverRide. Any lack of good maintenance, such as maintaining proper belt tension, tire pressures and lubrication shall be reason for rejection of a warranty claim.

In the judgment of EverRide, any original part found to be defective in material, workmanship or performance, will be repaired or replaced with a new part only by an EverRide Authorized Servicing Dealer without charge for parts and labor based on the following terms and conditions:

### Warranty Coverage:

This warranty is limited to two years from the date of purchase for parts and one year for labor for any EverRide product used for commercial purposes, income producing purposes or residential use. EverRide products used for rental purposes are limited to 90 days of warranty. Engine and battery warranties are provided separately by the manufacturer of those components.

Belts, cutting blades, grass collection bags and tires are guaranteed to be free from manufacturer's defects for the first 90 days.

The mower deck shell will be warranted from cracking as a result of defects in material or workmanship for the life of the unit.

Service parts are warranted for 90 days from the date of purchase.

### What this warranty does not cover:

The expense incurred for delivering this product to the dealer and returning it after repair. The responsibility of EverRide and its servicing dealers is limited to making the required repairs. Further, no breach of warranty shall be cause for cancellation of the contract of sale.

Subsequent purchasers of the mower other than the original purchaser. This warranty is not transferable.

Product(s) that has (have) been subject to improper maintenance, neglect, misuse, accident, alteration, modified or operated in any way contrary to the instructions specified in the Operator's Manual. Repairs made by unauthorized persons will not be covered under warranty. Damages caused by use of EverRide equipment other than for what it was designed.

Damages that are caused by unauthorized attachments, alterations or modifications will not be covered under warranty. Any piece of equipment where the serial number has been removed or is made illegible will not be covered under warranty.

Wear or maintenance items (unless defective) including, but not limited to: Clutch and brake linings, light bulbs, grass bags, filters (air, fuel, oil), lubricants & coolants (unless used during an authorized repair), spark plugs, injector nozzles.

As the manufacturer of this product, EverRide reserves the right to change, modify or improve the design of any of its products without assuming any obligation to modify or upgrade any mower, previously sold or manufactured.

As stated above, all other implied warranties are limited in duration. Any such implied warranties including merchantability, fitness for a particular purpose, or otherwise, are disclaimed in their entirety after the expiration of the warranty period. EverRide's obligation to the original owner is strictly and exclusively limited to the repair or replacement of defective parts, and EverRide does not assume nor authorize anyone to assume for them any other obligation.

EverRide assumes no responsibility for incidental, consequential or other damages including, but not limited to: Transportation of the mower to an Authorized Dealer and returning it back, rental of truck or trailer for transportation, expense for gasoline, injury to property, mechanic's travel time and mileage to perform repair(s), rental of a like product, loss of use of the EverRide product, loss of savings or revenue, loss or damage to personal property, and/or telephone charges.

Exclusions or limitations as stated above may not be allowed in some states. This warranty allows you specific legal rights and you may have other rights in your state.

### Warranty Registration

The warranty registration form must be completed and signed by the authorized dealer and the original purchaser and returned to EverRide within ten days of the date of purchase. The date of purchase is considered the day the unit is delivered.

### Dealer or Distributor Warranties

The selling dealer and distributor makes no warranty of their own and neither the dealer nor the distributor has any authority to make any representation or promise on behalf of EverRide, or to modify the terms or limitations of this warranty in any way.

**EverRide Warrior  
Operator's & Parts Manual  
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## SAFETY FIRST

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully. It is essential that you read the instructions and safety regulations before you attempt to assemble or use this unit.



**DANGER:** Indicates an immediately hazardous situation which, if not avoided, will result in death or serious injury.



**WARNING:** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



**CAUTION:** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

**IMPORTANT:** Indicates that equipment or property damage could result if instructions are not followed.

**NOTE:** Gives helpful information.

This machine meets or exceeds the B71.4 1999 specifications of the American National Standards Institute, in effect at the time of production.

**Note: The addition of attachments made by other manufacturers that do not meet the American National Standards Institute certification will cause noncompliance of this machine.**

### SAFE OPERATING PRACTICES

The following instructions are from ANSI standard B71.4 - 1999.

### TRAINING

Read the Operator's Manual and other training material. If the operator(s) or mechanic(s) cannot read English, it is the owner's responsibility to explain this material to them.

Become familiar with the safe operation of the equipment, operator controls, and safety signs.

All operators and mechanics should be trained. The owner is responsible for training the users.

Never let children or untrained people operate or service the equipment. Local regulations may restrict the age of the operator.

The owner/user can prevent and is responsible for accidents or injuries occurring to themselves, other people or property.

### PREPARATION

Evaluate the terrain to determine what accessories and attachments are needed to properly and safely perform the job. Only use accessories and attachments approved by the manufacturer.

Wear appropriate clothing including hard hat, safety glasses and ear protection. Long hair, loose clothing or jewelry may be tangled in moving parts.

Inspect the area where the equipment is to be used and remove all objects such as rocks, toys and wire, which can be thrown by the machine.

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## 2 - SAFETY

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Use extra care when handling gasoline and other fuels. They are flammable and vapors are explosive.

- a. Use only an approved container.
- b. Never remove gas cap or add fuel with engine running. Allow engine to cool before refueling. Do not smoke.
- c. Never refuel or drain the machine indoors.

Check that operator's presence controls, safety switches and shields are attached and functioning properly. Do not operate unless they are functioning properly.

### OPERATION

Never run an engine in an enclosed area.

Only operate in good light, keeping away from holes and hidden hazards.

Be sure all drives are in neutral and parking brake is engaged before starting the engine. Only start engine from the operator's position. Use seat belts if provided and the ROPS is installed.

Slow down and use extra care on hillsides. Be sure to travel in the recommended direction on hillsides. Turf conditions can affect the machine's stability. Use caution while operating near drop-offs.

Slow down and use caution when making turns and when changing directions on slopes.

Never raise deck with the blades running.

Never operate with the PTO shield, or other guards not securely in place. Be sure all interlocks are attached, adjusted properly, and functioning properly.

Never operate with the discharge shield raised, removed or altered, unless using a grass catcher.

Do not change the engine governor setting or over speed the engine.

Stop on level ground, lower implements, disengage drives, engage parking brake (if provided), shut off engine before leaving the operator's position for any reason including emptying the catchers or unclogging the chute.

Stop equipment and inspect blades after striking objects or if an abnormal vibration occurs. Make necessary repairs before resuming operations.

Keep hands and feet away from the cutting units.

Look behind and down before backing up to be sure of a clear path.

Never carry passengers and keep pets and bystanders away.

Slow down and use caution when crossing roads and sidewalks.

Stop blades if not mowing.

Be aware of the mower discharge direction and do not point it at anyone.

Do not operate the mower under the influence of alcohol or drugs.

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

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

### MAINTENANCE AND STORAGE

Disengage drives, lower implement, set parking brake, stop engine and remove key or disconnect spark plug wire. Wait for all movement to stop before adjusting, cleaning or repairing.

Clean grass and debris from cutting units, drives, mufflers, and engine to help prevent fires. Clean up oil or fuel spillage.

Let engine cool before storing and do not store near flame.



Shut off fuel while storing or transporting. Do not store fuel near flames or drain indoors.

Park the machine on level ground. Never allow untrained personnel to service machine.

Use jack stands to support components when required.

Carefully release pressure from components with stored energy.

Disconnect battery or remove spark plug wire before making any repairs. Disconnect the negative terminal first and the positive last. Reconnect positive first and negative last.

Use care when checking blades. Wrap the blade(s) or wear gloves, and use caution when servicing them. Only replace blades. Never straighten or weld them.

Keep hands and feet away from moving parts. If possible, do not make adjustments with the engine running.

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

Keep all parts in good working condition and all hardware tightened. Replace all worn or damaged decals.

## **EVERRIDE MOWER SAFETY**

The following list of safety warnings are specific to EverRide products. This list will contain additional safety information that is important, but not covered by the ANSI standards.

This product is capable of amputating hands and feet and throwing objects. Always follow all safety instructions to avoid serious injury or death.

The safety of the operator is one of our number one concerns when designing a new piece of

equipment. Our designers have built in as many safety features as possible. Even with these built in safety features, many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling machinery. Accidents can be avoided by observing all safety precautions. Read and understand all precautions found in the operator's manual before operating the EverRide mower. This equipment must only be operated by those who have been trained in its safe use.

In order to provide a better view, certain photographs or illustrations in this manual may show an assembly with a safety shield removed. However, a machine should never be operated without the safety shields installed. Keep all shields in place. If shield removal becomes necessary for repairs, replace shield prior to machine operation.



**WARNING: DO NOT remove or obscure DANGER, WARNING, CAUTION or Instruction Decals. Replace any decals that are not readable or are missing. Replacement decals are available from your dealer. The actual location of these Safety Decals is illustrated at the end of this section.**

## **GENERAL SAFETY RULES**

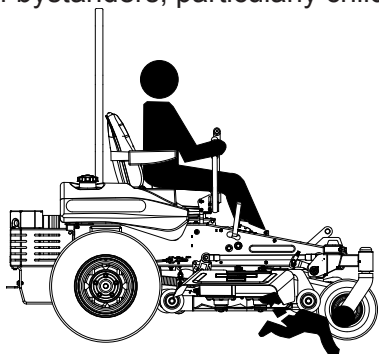
This book must be made available to the operator of the EverRide mower at all times.

Read this book carefully and learn how to use the machine correctly. Become familiar with all machine controls and how to stop the machine and the implements or attachments quickly.



## 4 - SAFETY

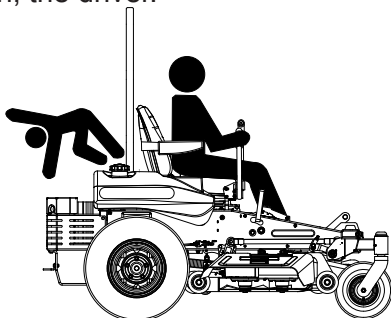
Beware of bystanders, particularly children!



Always look around to make sure that it is safe to start the engine or move the power unit. This is particularly important with higher noise levels as you may not hear people shouting.

### KEEP PASSENGERS OFF

Only allow the operator on the machine. Do not carry passengers. This mower is designed for one (1) person, the driver.



Riders on the machine could be struck by foreign objects or thrown off the machine causing serious injury.



Riders obstruct the operator's view which results in the machine being operated in a manner which is unsafe.

DO NOT carry passengers anywhere on the power unit or on any implement or attachment connected to, or installed on the power unit.

### BEFORE OPERATION

Pay special attention to the warning, caution and danger labels on the machine.

Do not use starting fluid. Use of starting fluid could damage engine components.



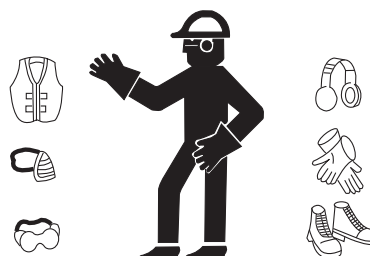
Check the brakes and other mechanical parts for correct adjustment and wear. Replace worn or damaged parts promptly. Check the torque on all hardware regularly.

Do not wear headphones or listen to music while operating the deck. Operating the machinery safely requires your undivided attention.

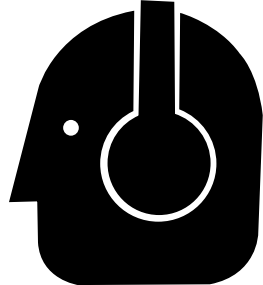
Keep the power unit and attachments clean. Accumulation of dirt, grease, or grass can lead to fires or personal injury.

Do not modify the power unit or any of its attachments. Unauthorized modification of the machinery may affect its functionality, which could lead to personal injury.

Do not wear loose fitting clothing which could get caught in moving parts. Do not operate this machine while wearing shorts. Always be sure to wear adequate protective clothing. Wearing safety glasses and safety shoes is advisable.



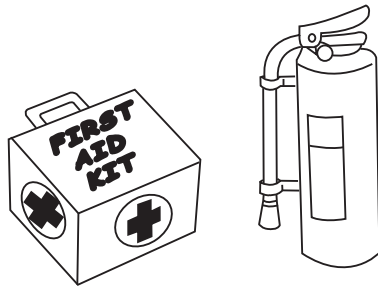
Operator hearing protection is recommended. Extended exposure to loud noise could lead to hearing loss.



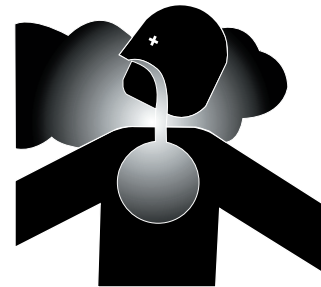
Never remove the discharge shield from the mower because the discharge shield directs material down toward the turf. If the shield is damaged, be sure to replace it immediately.

Never try to clear the discharge area or the mower blades unless you have moved the motion control arms to the park position, turned the mower PTO switch to the off position, the mower ignition switch is in the off position, the key is removed and the negative battery cable has been removed.

A fire extinguisher and first aid box should be carried with the power unit or be kept readily available at all times.



Do not operate the power unit in a confined or non-ventilated area. Carbon monoxide gas is colorless, odorless, and can be fatal.



Keep emergency numbers for immediate access.

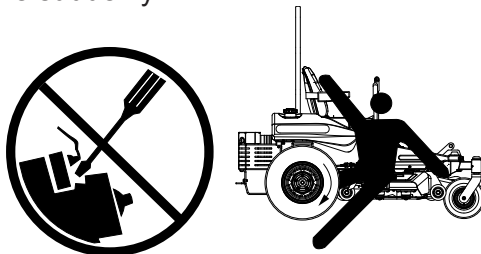
Do not turn sharply when driving at high speeds.

**DURING OPERATION**

Park the mower on a firm level surface with the motion control arms in the park position.

Do not bypass the starting circuit by shorting across the terminals of the starter motor to start the engine. This may cause the power unit to move suddenly.

When backing, be sure to turn around and look to the rear. Do not mow in reverse unless it is absolutely necessary.



When working in groups, use caution and watch out for others.

Always be aware of mower discharge direction. Make sure it does not point at anyone.

Periodically check the starting circuit to make sure all system components operate correctly.

If the starting system does not work, consult your EverRide Dealer immediately.

Operate the mower only in daylight or when the area to be mowed is lit well by artificial light.



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## 6 - SAFETY

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Be sure the engine and rotating blades have stopped before putting hands or feet near the blade.

Disengage the blade drive when transporting the machine across drives, sidewalks, etc. Never raise the mower deck while the blades are turning.

Do not put hands or feet under or into the mower when it is running.



Do not touch the engine or muffler when the engine is running or immediately after the engine has stopped. These areas may be hot enough to cause serious burns.

Do not drive the machine on streets or highways. Watch for traffic when crossing streets or while mowing close to roads.

Always inspect the mower for damage after striking a foreign object. Always repair or replace damaged parts before restarting the mower deck.

Do not operate the power unit without the mower deck attached.

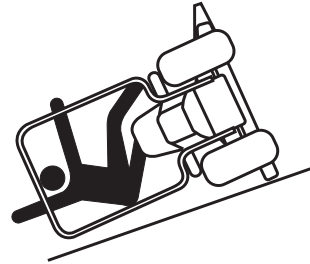
Make sure the machine and all attachments come to a complete stop before dismounting.

Before dismounting, disengage the PTO, lower all attachments, place the control levers in the park position, turn off the engine, and remove the key.

### OPERATING ON SLOPES

Avoid starting or stopping when going up or down a slope. Keep all movements on a slope gradual

and slow. Do not make sudden changes in speed or direction.



If tires lose traction while on a slope, disengage the mower blades and back slowly and gradually down the slope.

Do not turn on slopes unless necessary, and then turn slowly and gradually downhill if possible.

Use extra caution when mowing on slopes. If you are unable to back up on the slope, or if you do not feel comfortable on it, then do not mow it.

Mow across slopes, not up and down, to avoid machine tip-over. Do not mow slopes or hills that are too steep for safe operation.

Do not try to stabilize the machine by putting your foot on the ground.

### ROLL OVER PROTECTIVE STRUCTURE (ROPS)

Do not weld, drill or alter the ROPS. Damaged ROPS must not be straightened or used. If damage does occur, consult your EverRide Dealer and replace all damaged parts.

If the ROPS is lowered or removed from the power unit for any reason, it must be erected and/or refitted immediately. Original bolts or equivalent replacements must be used and tightened to the correct torque.

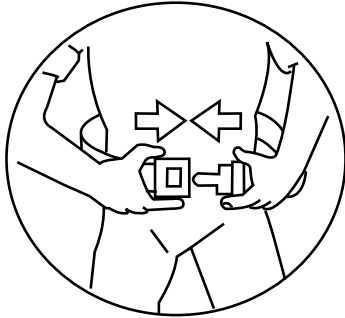
Do not attach chain, ropes, or cables to the ROPS for pulling purposes as this will cause the mower to tip backwards.

EverRide does not recommend the use of the mower with the ROPS removed.

If you have a foldable ROPS, it can be folded down for mower storage. It **must** be pinned in the upright position prior to machine operation.

## SEAT BELT USAGE

With the ROPS installed, it is imperative that the seat belt be installed, used, and correctly adjusted at all times. Replace damaged seat belts immediately.



Do not use a seat belt if operating with ROPS folded down or removed.

## MAINTENANCE

Only qualified, trained adults should service the machine.

Before maintenance is performed, make sure the mower is parked on a firm flat surface. Remove the key to prevent an accidental start up.

Never attempt to disconnect any safety devices.

Frequently check for worn or deteriorating components that could create a hazard.

Use only genuine EverRide replacement parts. Substitute parts could cause product malfunction or possible injury to the operator or bystanders.

If it is necessary to have the engine running while making maintenance adjustments, keep hands, feet, and clothing away from all moving parts.

When making adjustments while the engine is running such as carburetor and motion control linkage adjustments, stand to either side of the tractor and mower and keep clear of moving or rotating components.

Allow the EverRide mower time to cool before touching the engine, the muffler, radiator, or any other part which may be hot.

Always stop the power unit and PTO before refueling.

Keep the engine free of grass, leaves, grease and other debris which could catch fire.

Keep all hardware tight to insure the machine is in a safe working condition. Check the blade mounting nuts often to make sure they are tight.

Perform only maintenance instructions described in this manual. Unauthorized maintenance operations or machine modifications may result in unsafe operating conditions.

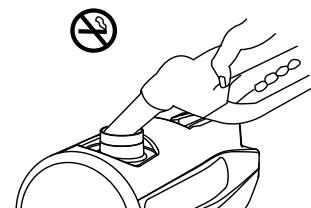
For engine maintenance, follow the engine manufacturer's recommendations as noted in the engine manual.

## FUEL SYSTEM

Handle gasoline with care. Gasoline is extremely flammable and its vapors can be explosive. Use an approved fuel container.

Never add fuel to the mower while the engine is running or while it is hot. Allow the engine to cool for several minutes before adding fuel.

Keep matches, cigarettes, cigars, pipes, open flames, or sparks away from the fuel tank and fuel container.



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## 8 - SAFETY

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Always fill the fuel tanks outside using caution. Fill the tank until the fuel is about one inch from the top of the tank. Use a funnel or spout to prevent spilling. When refueling at a gas pump, always insure the nozzle contacts the neck of the tank while filling.

Replace the machine and container caps and clean up any spilled fuel before starting the engine.

Keep the mower and all fuel containers in a safe locked place to keep children from tampering with them.

Fuel system components rely upon clean fuel for lubrication and optimum performance. Extreme care must be taken to prevent ingress of dirt and moisture to prevent damage.

Use only nonmetal portable fuel containers approved by the Underwriter's Laboratory (U.L.) or the American Society for Testing and Materials (ASTM). If using a funnel, make sure it is plastic and has no screen or filter.

When practical, do not fuel the equipment on truck beds or on trailers. Remove them and fuel on the ground. If this is not possible, use a portable nonmetal fuel container to fill the equipment.

### HYDRAULIC SYSTEM

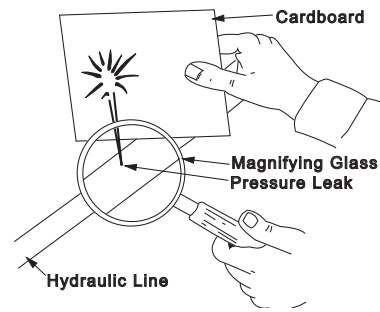
Make sure all hydraulic fluid, hoses, and lines are in good condition and all lines and fittings are tight before applying pressure to the hydraulic system.

Check hydraulic connections frequently. They can leak as a result of damage, as a result of vibration or because they have worked loose.

Relieve all pressures before disconnecting hoses or lines. Escaping oil under pressure can cause serious injury.

Escaping hydraulic fluid under pressure can have sufficient force to penetrate the skin, causing serious injury. Before applying pressure to the system,

make sure all connections are tightened, and lines, pipes and hoses are not damaged. Fluid escaping from pinholes may be invisible. Do not use your hands to search for suspected leaks. Instead, use a piece of cardboard and wear protective eye wear such as safety goggles.



If injured by escaping fluid, see a medical doctor at once. Serious infection or reaction will result if proper medical treatment is not administered immediately. This fluid can produce gangrene or severe allergic reaction.

### BATTERY MAINTENANCE

Use caution when charging the battery or performing maintenance on the battery and electrical system.

Do not use a naked flame to check battery electrolyte level. Always use a voltmeter or hydrometer to check the state of the charge.

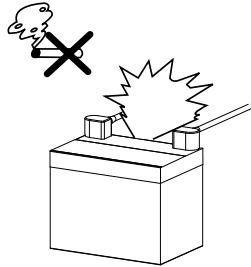
Make sure the battery charger is unplugged before connecting or disconnecting the cables to the battery.

Batteries contain sulfuric acid electrolyte. Always wear protective clothing and eye protection when servicing.

In case of electrolyte contact, rinse area with plenty of water and seek medical attention.

Make sure the battery is charged in a well ventilated location so hydrogen gases that are produced while it is charging can dissipate. Make sure the battery vents in the cap are open. Halt charging if battery exceeds 52°C (125°F).

Keep sparks, flames, and smoking material away from the battery at all times. To avoid sparks, use care when removing battery cables from their posts.



Do not use or charge the refillable type of battery if the fluid level is below the lower limit level mark. Otherwise the parts may prematurely deteriorate which could shorten the battery's service life or cause an explosion.

Before "jump starting" a battery, read and understand all instructions.

Disconnect the battery's ground cable before working on or near any electrical parts.

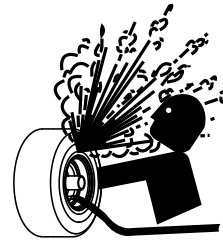
## TIRE MAINTENANCE

Always insure the tires are inflated to the correct pressure. Do not inflate the tires above the recommended pressure in the operator's manual.

Make sure all hardware, especially the wheel nuts and bolts have been tightened to the correct torque.

When removing a tire from the power unit, it is necessary to support it with blocks or stands, not a hydraulic jack.

Do not attempt to service a tire unless you have the proper equipment and experience to perform the job. If you are not qualified to make the repairs, take the unit to your EverRide dealer or a qualified repair service.



When seating tire beads on the rims, never exceed 2, 4 bar (35 p.s.i.) or the maximum inflation specified on your tires. Inflation beyond this maximum pressure may break the bead, or even the rim, with dangerous explosive force.

## REPLACEMENT PARTS

Where replacement parts are necessary for periodic maintenance and servicing, genuine EverRide replacements must be used to restore your equipment to original specifications.

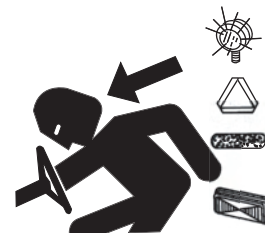
EverRide will not claim responsibility for installation of unapproved parts and/or accessories and damages as a result of their use.

## TRANSPORTING

Disengage the power to the attachments when in transport or not in use.

Do not tow this machine. Use a truck or trailer to transport this machine on public roads.

It is recommended this machine not be used on public roads.



Flashing warning lights and a slow moving vehicle sign are recommended any time the mower is driven on public roads.

Slow moving vehicles are difficult to see on public roads especially at night. Use extreme caution when transporting at night.

# 10 - SAFETY & INSTRUCTION DECALS

Made with Pride in the USA Auburn, NE

FUEL TANK SELECTOR

RIGHT OFF LEFT



**WARNING**

**TO AVOID SERIOUS INJURY OR DEATH**

- USE EXTREME CAUTION WHEN OPERATING ON SLOPES. MOW ACROSS SLOPES - NOT UP AND DOWN.
- DRIVE SLOWLY ON SLOPES.
- AVOID BOUNCING SPRINGS.
- DO NOT OPERATE ON WET SLOPES.
- EXECUTE TURNS SLOWLY.
- LOSS OF TRACTION MAY OCCUR WHEN OPERATING ON SLOPES.
- NEVER CARRY CHILDREN OR OTHERS.
- KEEP SAFETY DEVICES (GUARDS, SHIELDS AND SWITCHES) IN PLACE AND WORKING.
- REMOVE OBJECTS THAT COULD BE THROWN BY THE BLADE.

READ AND UNDERSTAND OPERATORS MANUAL.

**WARNING**

**TO AVOID THE POSSIBILITY OF INJURY**

- READ AND UNDERSTAND ALL SAFETY AND INSTRUCTION LABEL ON THIS EQUIPMENT, AS WELL AS ALL SAFETY PRECAUTIONS FOUND IN THE OPERATORS MANUALS FOR THIS EQUIPMENT, BEFORE ITS USE.
- DO NOT MODIFY OR ALTER, OR PERMIT ANYONE ELSE TO MODIFY OR ALTER THIS EQUIPMENT, OR ANY OF ITS COMPONENTS OR OPERATING FUNCTIONS, WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE EQUIPMENT MANUFACTURER.

**CAUTION**

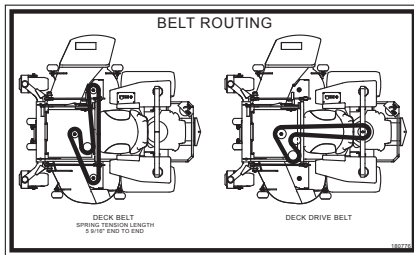
**TO AVOID PERSONAL INJURY**

- KNOW LOCATION AND FUNCTION OF ALL CONTROLS.
- BEFORE STARTING ENGINE, MAKE CERTAIN PTO IS DISENGAGED, MOTION CONTROL LEVERS TO NEUTRAL LOCK AND EVERYONE IS AT A SAFE DISTANCE FROM THE MACHINE.
- TO REDUCE FIRE HAZARD, KEEP THE EXHAUST CLEAR OF DRY GRASS, DRY LEAVES OR OTHER COMBUSTIBLE MATERIALS.
- BEFORE DISMOUNTING, DISENGAGE PTO CLUTCH, LOWER IMPLEMENT, SHIFT INTO NEUTRAL, SET PARKING BRAKE, STOP ENGINE AND REMOVE KEY.
- THIS MACHINE IS NOT FOR STREET OR HIGHWAY USE.

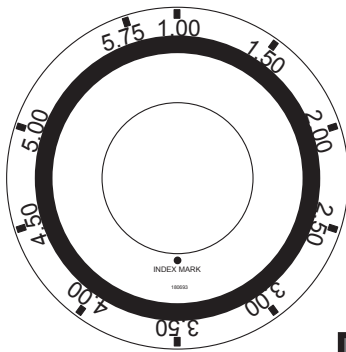
READ AND UNDERSTAND OPERATORS MANUAL.

181120

1. 181126



6. 180776



9. 180693

**WARNING**

- Shield Missing.
- DO NOT Operate.

12. 160169



13. 181000



2. 181003

**ATTENTION**

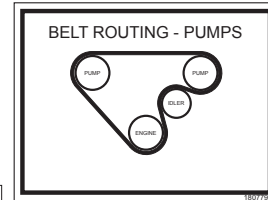
- Hydraulic Oil - SAE 20W50 SJ/CD

Fill Until Oil Covers Top Of Baffle

Use Of Non-Recommended Oils Could Cause Damage

181014

4. 181254



3. 180779

DECK RELEASE LEVER

DEPRESS FOOT LIFT BEFORE RELEASING

180820

5. 180846

**DANGER!**



180996

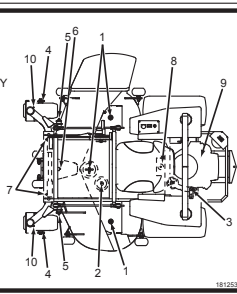
7. 180996



8. 180954

LUBRICATION INTERVALS

REF	DESCRIPTION	FREQUENCY
1	BLADE SPINDLES (3)	25 HOURS
2	DECK PIVOT IDLER (1)	25 HOURS
3	PUMP DRIVE TENSION (1)	25 HOURS
4	FRONT WHEEL AXLES (2)	40 HOURS
5	LIFT LINK PIVOTS (2)	40 HOURS
6	FRONT AXLE PIVOT (1)	40 HOURS
7	DRAG LINK PIVOTS (2)	40 HOURS
8	HYDRAULIC FLUID LEVEL	DAILY
9	ENGINE OIL LEVEL	DAILY
10	WHEEL FORK PIVOTS (2)	YEARLY



181253

10. 181253


**DANGER**

ROTATING BLADE  
DO NOT PUT HANDS OR FEET UNDER OR INTO MOWER WHEN ENGINE IS RUNNING

THROWN OBJECTS  
BEFORE MOWING, CLEAR AREA OF PEOPLE AND OBJECTS THAT MAY BE THROWN BY BLADE

DO NOT OPERATE MOWER WITHOUT ENTIRE GRASSCATCHER IN PLACE OR DISCHARGE CHUTE IN PLACE AND IN LOWERED POSITION

FAILURE TO COMPLY WILL RESULT IN DEATH OR SERIOUS INJURY



181258

11. 181258

ON OFF

EverRide

OFF RUN

START

PTO

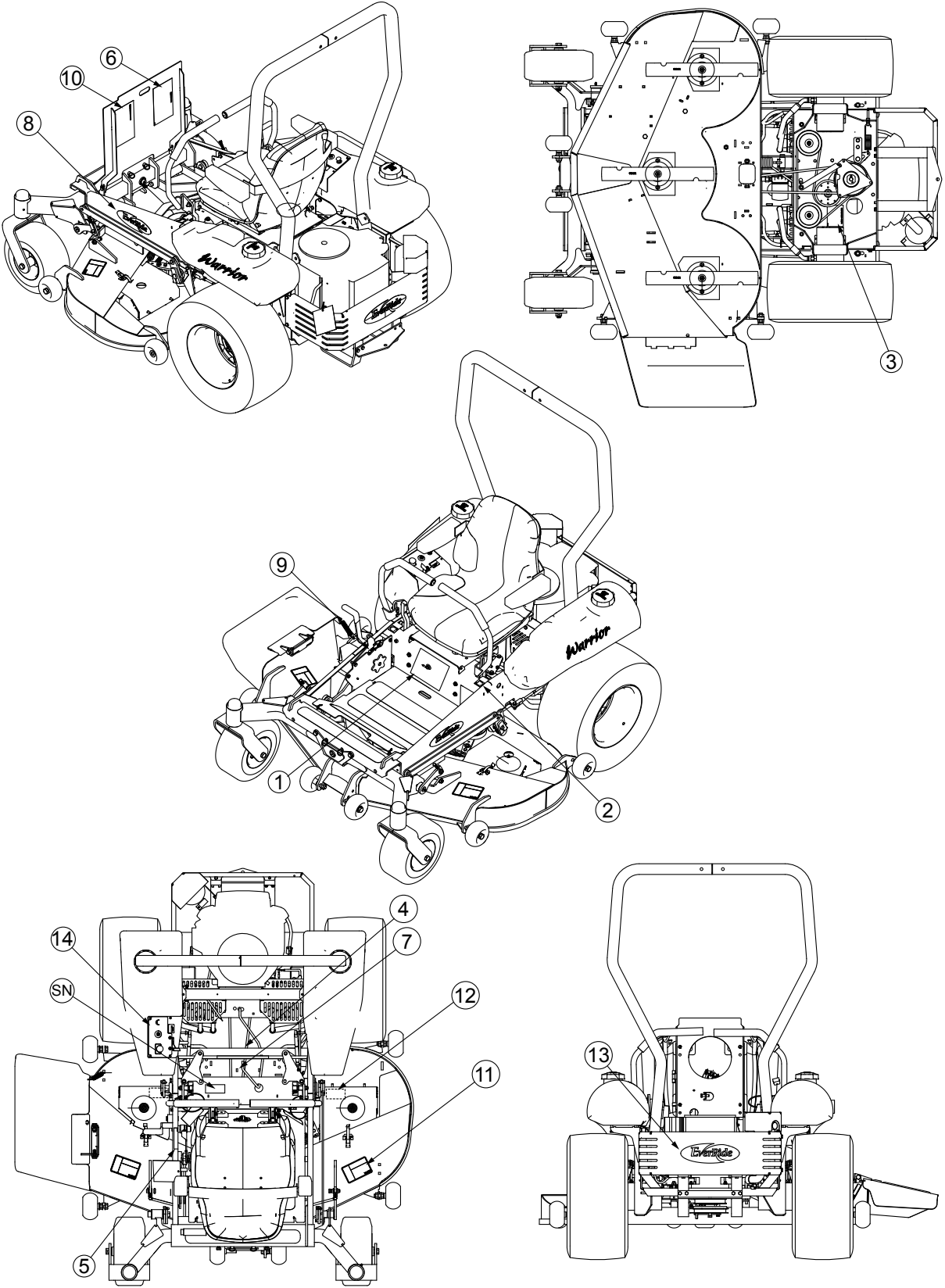
ENGINE

CHOKE

181124

14. 181124





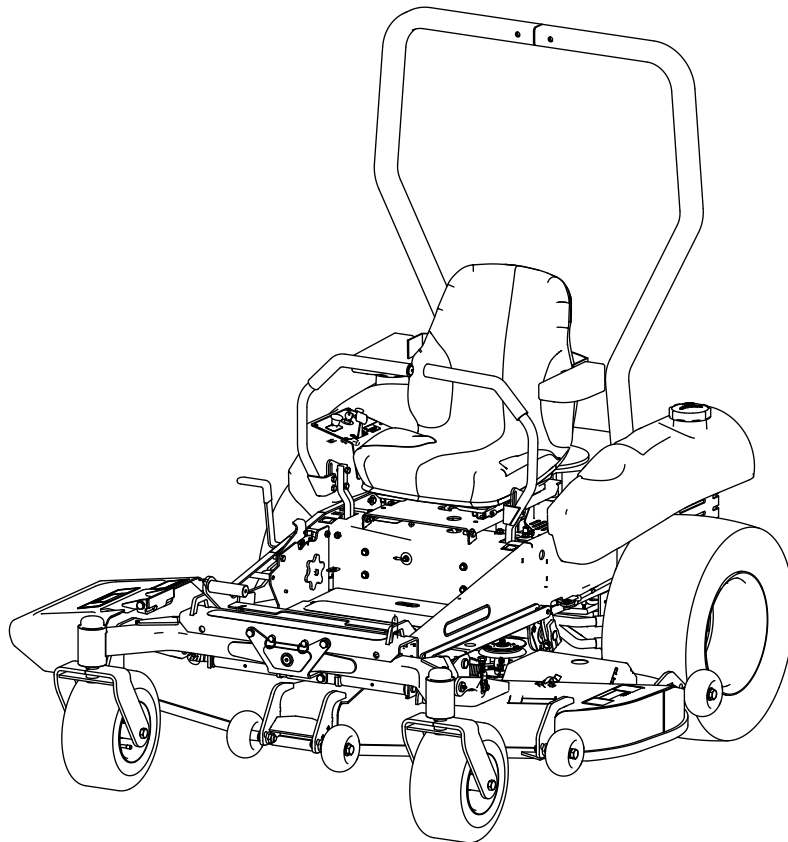
### INTRODUCTION

The information in this publication describes the operation, maintenance and servicing of the EverRide Warrior mowers. Every effort has been made to provide correct and concise information to you, the operator, as available at date of book publication. Your EverRide dealer is available should items in this book or details of your machine not be understood.

This book is supplied with each machine to familiarize the operator with proper instructions needed for operation and maintenance. Studying and adhering to these instructions will insure optimum machine performance and longevity. A machine that is maintained properly and operated in the intended manner will provide greater dividends than one that is neglected and/or operated in manner other than as intended. Design and servicing of this machine has been kept as simple as possible to permit maintenance operations to be carried out with tools normally available.

This book should be thoroughly read and understood prior to operation of this machine. Inexperienced operators should study the contents of this publication and receive instruction from an experienced operator when possible. Your EverRide dealer can also assist in areas concerning machine operation and provide details concerning safe operation. It is suggested that this booklet be kept readily accessible, preferably with the machine, for future reference if questions or concerns arise. If the original book should become damaged, consult your Dealer in regards to acquiring a replacement.

Customers are strongly advised to use an official EverRide dealer in connection with any service problems and adjustments that may occur. The EverRide dealer network is specially trained and equipped for all service work and to advise customers on specific applications of the mower in local conditions.

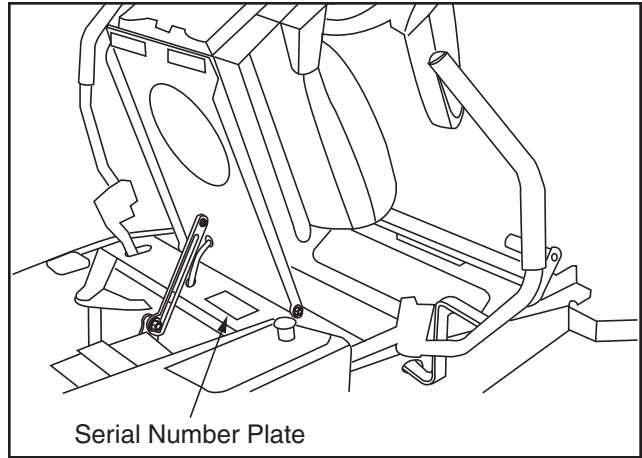


**IDENTIFICATION**

**Model / Serial Numbers**

Each EverRide Warrior mower is identified by means of model and serial numbers. As a further identification, the engine is also provided with identification numbers.

To insure prompt, efficient service when ordering parts or requesting repairs from an authorized EverRide dealer, these numbers must be provided.



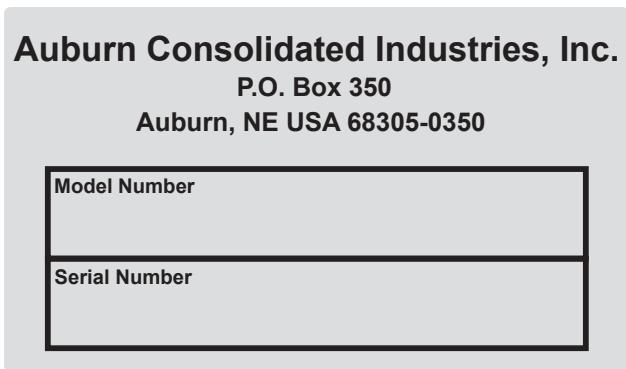
**MOWER MODEL**

**ENGINE MODEL NUMBER**

**MOWER SERIAL NUMBER**

**ENGINE SERIAL NUMBER**

This is what the mower serial number plate looks like.



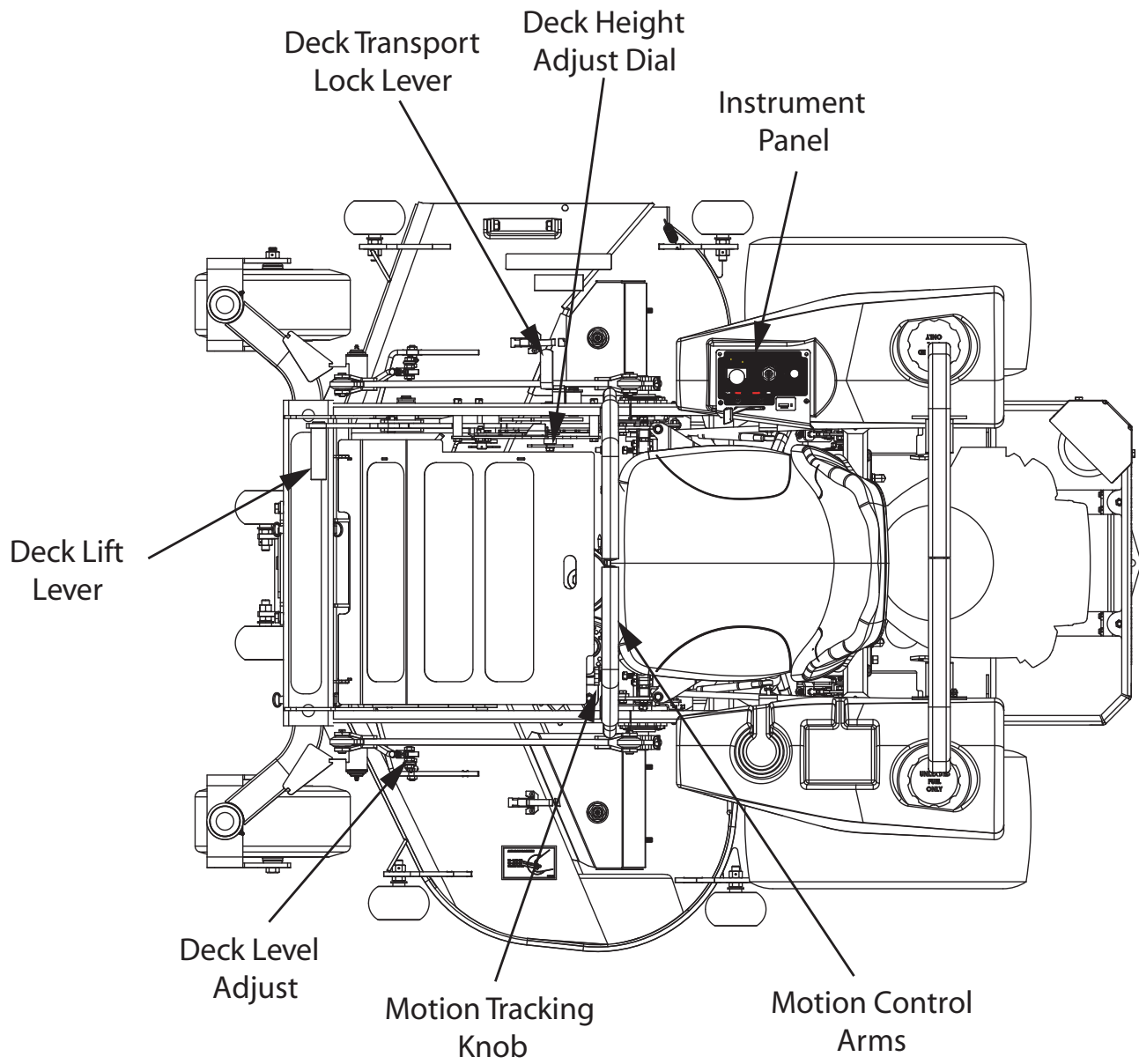
The mower serial number plate is located below the operator's seat on the right hand side of vertical floor panel. Information contained in this serial tag is the model number and the serial number.

The engine model number is found on a decal on the left side of the engine block on the oil reservoir next to the electric starter. The engine serial number is located at the bottom of the same decal.

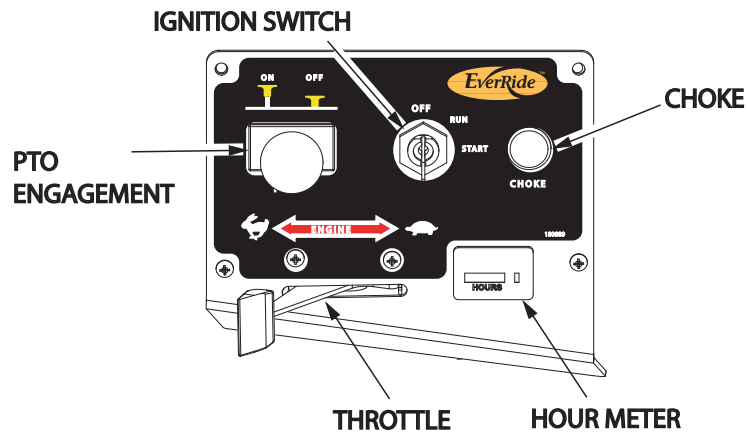
**NOTE:** Reference to left-hand and right-hand, used throughout this manual, refers to the position when seated in operator's seat and facing forward.

Engine troubleshooting, repair or adjustments are not covered in this manual. A service manual for the engine can be ordered from a Kawasaki dealer.

INSTRUMENTS AND CONTROLS



## INSTRUMENT PANEL



## ELECTRIC FUEL SHUT OFF

Turning the ignition switch to the “OFF” position will stop the engine.

## IGNITION SWITCH

The Ignition switch has three positions.

- OFF** - Engine and all electrical circuits off.
- ON** - Power supplied to all circuits. Normal operating position.
- START** - Starter activated. This position spring-loaded to “ON”.

## ENGINE THROTTLE

**⚠ CAUTION: Always control ground speed to insure safe operation. Reduce speed prior to turning or backing the mower.**

**IMPORTANT:** DO NOT “race” or excessively load a cold engine.

The engine throttle controls the engine speed of the unit. Engine speed increases as the throttle lever is moved forward. Decreased engine speed is achieved by moving the throttle lever rearward.

## CHOKE

When starting a “cold” engine, it may be necessary to engage the choke by pulling it up. After starting the engine, push the choke closed to keep the engine running smoothly.

### PTO ENGAGEMENT

The PTO (Power Take Off) engagement switch will be used to activate the mower for use. When the switch is in the up “ON” position, the mower deck will be engaged. When the PTO switch is down, the PTO is disengaged.

**IMPORTANT:** When engaging the PTO, always engage it while the engine is at full throttle.

### HRMETER

The hour meter keeps track of how many hours the power unit has been in operation.

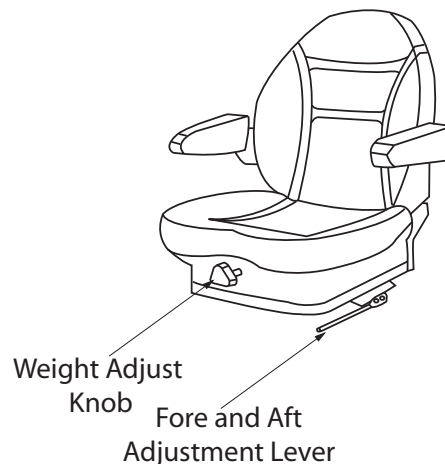
The hour meter works electronically and is activated as soon as the ignition key is turned to the “ON” position.

### COMFORT ADJUSTMENTS

**CAUTION:** The seat is designed for only one person. Do not allow any passengers to ride on this machine.

**CAUTION:** Never make seat or steering adjustments while the mower is in motion. Make sure all adjustments are locked prior to operating unit.

The seat moves fore and aft. A cushion spring adjustment knob is also included on the seat. This adjusts to the weight of the operator. For a heavier operator, move the knob clockwise. For a lighter operator adjust the knob counterclockwise.



When adjusting the seat fore and aft, make sure the seat is where it is most comfortable to operate the deck raise and lower foot lever.

Both seats are hinged and are capable of being tipped forward for access to the power unit components underneath.

## BREAK-IN PERIOD

- Operation of the mower within the first fifty hours can be a major factor in determining the performance and life of the engine and power unit.
- The engine may be operated at full RPM, but excessive load should be avoided. If engine begins to “bog down”, operate the power unit and mower at a slower ground speed while maintaining the engine speed.
- Check engine, pumps, and motors frequently during break-in period. Watch for evidence of leakage of fluids. Replenish levels as required and repair any leaks that may have formed.
- Tighten any nuts, bolts or screws that may have loosened and tighten them as necessary. This is especially true of the wheel retaining nuts.
- Be observant to control arm and parking brake adjustment. Lining materials used on the parking brake will “bed in” in the first few hours of operation and may necessitate the need for early and frequent readjustment.
- Keep area around the fuel tank filler cleaned and make sure the gasoline is of correct octane and free of contamination.
- Initial oil and oil filter change is after the first 8 hours of use and every 100 hours after.



**CAUTION:** Proper maintenance practices cannot be overemphasized. They are required for safe operation. Consult the “Lubrication and Maintenance” section of this manual for full details.

## MOUNTING AND DISMOUNTING SAFELY

DO NOT step on either side of the mower deck when mounting or dismounting the power unit. Step over the deck when mounting or dismounting.

## FUEL

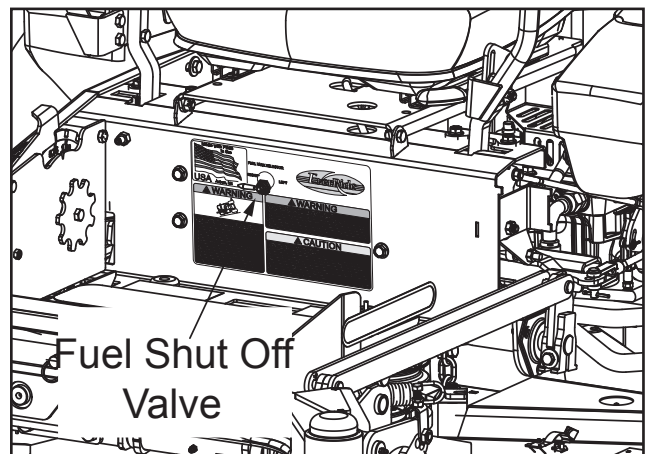
Make sure the fuel tank is full, but do not overfill. Gas should remain one inch below the neck of the tank. Be sure to use unleaded gasoline with an octane rating of 87 or higher. The octane rating of a gasoline is a measure of its resistance to knocking. You may use gasoline with up to 10% ethanol by volume.

**NOTE:** If knocking or pinging occurs, switch to a different brand or a higher octane gasoline.

Make sure dirt and foreign matter is kept out of the fuel tank. Use only a clean funnel and fuel can to fill the tanks.

## SWITCHING FUEL TANKS

The power unit has two fuel tanks, one located on each side to the rear of the operator. Each tank connects to a fuel shut off valve located below the operator’s seat. From the fuel shut off valve a common line leads to the engine.



To use the RH tank, rotate the fuel shut off valve to the right of the off location. This will allow use of fuel from the RH tank only. When the RH tank is almost empty, move the fuel shut off valve to the left of the off position and this will use fuel from the LH tank only.

Always make sure to close the fuel shut off valve before transporting or storing the machine.


### STARTING THE EVERRIDE MOWER


#### Pre Start Inspection

Prior to daily start-up of the mower, a few basic procedures should be followed to insure the machine is in optimal operating condition.


- Make sure all safety shields are in place and secured properly.
- Make sure the operator is instructed on correct and safe operation of the power unit and related attachments and implements.
- Check engine and hydraulic reservoir oil and replenish as necessary.
- Check the pump belt and drive belt tension and adjust as necessary.
- Insure air intake screens are clear of debris to provide maximum engine cooling.
- General inspection of tires, tire pressure and wheel bolt torque. Observe for external signs of leakage and correct before operating the mower. Check motion control arms for looseness and correct position.
- Check for adequate fuel supply. It is recommended that the fuel tank be replenished following each days use to reduce condensation and provide a full tank for next use.

 **WARNING:** Carefully read and understand the **SAFETY** section of this manual.

 **WARNING:** Always start and operate the engine in a well ventilated area. If in an enclosed area, vent the exhaust outside.

 **WARNING:** Do not modify or tamper with the exhaust system.

#### Normal Starting

 **CAUTION:** Do not attempt to start the engine unless you are seated in the operator's seat. Do not allow anyone on the mower except the operator.

Sit on the operator's seat. Be sure the handles are both facing out in the park position and the PTO is not engaged.

The choke control knob is located on the control panel. To start a cold engine, pull the choke control up to the on position. After the engine starts, move the choke control down toward the "OFF" position, keeping enough choke to keep the engine running smoothly.

**NOTE:** Be sure the choke is in the "off" position during normal engine operation. Running with the choke in the "On" position can cause damage to the engine.

Use the throttle control lever to increase and decrease the engine speed. Moving the lever forward will increase the engine speed while moving the throttle backwards will lower the engine speed. When starting the power unit, set the throttle at half speed.

Insert the key into the ignition switch and turn to the right to the start position and then release the key after the engine has started.

**NOTE:** Because of safety features, the engine can't be started unless the control arms are in the park position, the operator is in the seat, and the mower PTO is off.

Allow the engine to idle for a few minutes before increasing the throttle or engaging the PTO.

Before turning off engine disengage the PTO, put the handles in neutral, and pull the throttle back to a low idle. Allow the engine to idle for a few minutes and then turn the engine off by turning the key left to the off position. Be sure to remove the key before getting out of the operator's seat.



**IMPORTANT:** DO NOT leave the key in the ignition while the machine is unattended.

Do not operate the engine starter for more than thirty seconds at a time. An interval of at least two minutes should be allowed between cranking periods to prevent the starter from overheating or burning out.

### Starting In Cold Weather

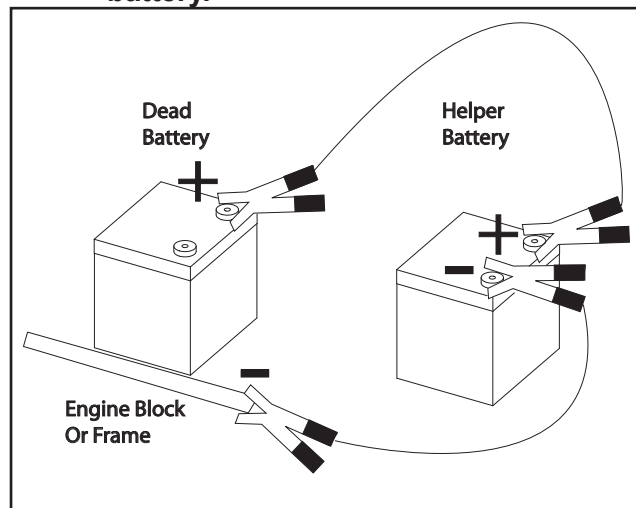
When the temperature is below -5°C (23°F) and the engine is cold do not try to start the engine for more than ten seconds at a time. If the engine does not start after 10 seconds, turn the ignition to “OFF” and let the mower stand for 30 seconds. To protect the battery and the starter, make sure the starter does not turn for more than 10 seconds continuously.

### Jump Starting The Power Unit

**⚠ WARNING:** Battery gases can be explosive. Keep all cigarettes, sparks or flames away from the battery.

**⚠ WARNING:** If the battery is frozen, do not attempt to jump start the engine.

**⚠ WARNING:** Do not connect the negative battery cable to the power unit battery.



**IMPORTANT:** This mower has a 12-volt negative ground starting system. Use only helper vehicles with the same voltage. Use of a higher electrical voltage vehicle to jump this machine could result in damage to the electrical system.

1. Pull the helper vehicle close enough for easy connection to the battery.

**⚠ WARNING:** Do not allow the vehicles to touch when attempting a jump start.

2. Put the mower motion control arms in the park position and put the helper vehicle in the neutral position and apply the parking brake. Turn the engine off.
3. Put on safety goggles and rubber gloves.
4. Attach the red clamp to the red pole (positive +) on the dead mower battery. Attach the other red cable to the red pole (positive +) on the helper vehicle.
5. Attach the other black cable to the black (negative -) pole on the helper vehicle.
6. Connect the black cable to the mower frame or engine block for a ground. Connect this as far from the mower battery as possible.
7. Start the helper vehicle and let it run for a short amount of time. Start the disabled mower.
8. Disconnect the cables in the exact reverse order. Start with step 6, then 5 and 4.

### WARMING THE MOWER

**⚠ CAUTION:** To avoid personal injury, make sure the control arms remain in the park position during warm-up.

Allow the engine to idle for five minutes after start-up. This allows oil to reach all working parts. Failure to allow the machine to warm-up before

## 20 - OPERATING THE POWER UNIT

applying a load could cause premature wear, seizure, or breakage.

In cold weather the viscosity of hydraulic oil may increase. This can cause decreased oil circulation and low oil pressure. Using the power unit before properly warmed up could cause damage to the hydraulic system. For the proper warm-up time, see the chart below.

TEMPERATURE	WARM-UP TIME REQ.
Higher than 0°C (32°F)	5 Minutes
0 to -10°C (14-32°F)	5-10 Minutes
-10 to -20°C (14 to -4°F)	15 Minutes
Below -20°C (-4°F)	More than 15 Minutes

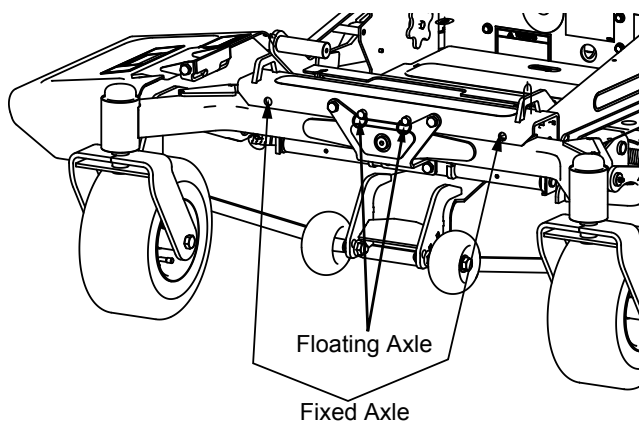
### INCREASING ACCELERATION

Moving the throttle lever forward increases the engine speed and moving it backwards will decrease the engine speed.

For good mowing performance it is important to run the engine at a high speed, but drive at a steady ground speed. If streaking or trailing occurs, decrease your ground speed.

### LOCKING THE FRONT AXLE

The mower is shipped with the front axle in the floating position. To lock the front axle so it can't float, remove the two 5/8 x 5 pins from the locations shown and insert them into the outer hole locations on the frame as shown.



### RAISING THE MOWER DECK



**DANGER:** Before raising the deck to the transport position, insure the PTO is disengaged and the motion control arms are in the park position.

Place your right foot on the deck lift lever and press it until the deck is locked in the transport position.

To lower the deck, push the deck lift lever in with your right foot and pull the deck lock lever back. Slowly lower the deck back to mowing position. Release the deck lock lever.

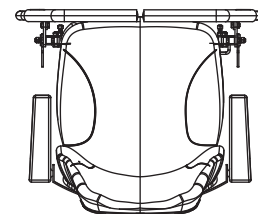
### OPERATING THE EVERRIDE MOWER

Before using the mower to mow for the first time, it is beneficial to operate the EverRide mower at low speeds in an open area to acclimate yourself to the machine controls.

The control arms are located on both sides of the operator's seat. These arms are used to control the forward, reverse and turning motion of the power unit. See the following section for an explanation of the steering controls.

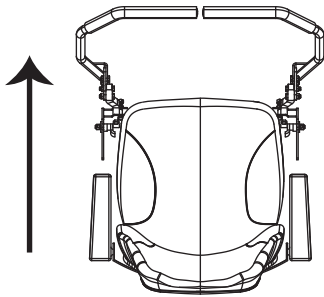
### STEERING CONTROLS

After starting the power unit, pull the motion control steering levers back together out of the lock position and into the neutral position. You are able to steer the power unit using the motion control levers.



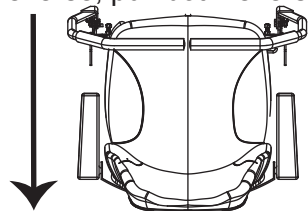
**NEUTRAL**

To go forward, push both levers straight ahead.



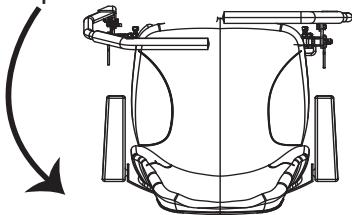
### STRAIGHT FORWARD

To go in reverse, pull both levers straight back.



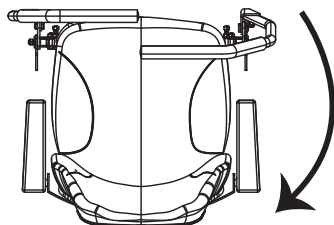
### STRAIGHT REVERSE

To turn right in reverse, leave the right lever in neutral and pull back on the left lever.



### REVERSE LEFT

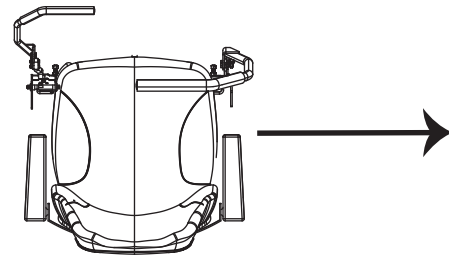
To turn left in reverse, leave the left lever in neutral and pull the right lever straight back.



### REVERSE RIGHT

To turn right, leave the right lever in neutral and push the left lever straight ahead.

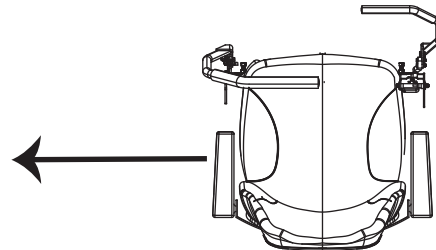
To make a sharp right turn, push the left lever straight ahead and pull the right lever straight back.



### SHARP RIGHT

To turn left, leave the left lever in neutral and push the right lever straight ahead.

To make a sharp left turn, push your right lever straight ahead and pull straight back on the left lever.



### SHARP LEFT



**CAUTION:** Use caution when making turns. Slow the machine down to a manageable speed before making sharp turns. This mower can spin very rapidly when pushing forward on one lever and pulling back on the other.

### STOPPING THE ENGINE

Move the control arms to the park position, idle the engine a few moments and turn the ignition switch to the "Off" position. Remove the key.

### MOVING A STALLED EVERRIDE MOWER

If the mower engine stalls and will not restart the unit can be pushed or towed for short distances with the pump bypass valves open. Do not exceed 5 m.p.h. when towing.

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## 22 - OPERATING THE POWER UNIT

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**IMPORTANT:** The bypass valves must be opened two full turns before the unit is moved. Be sure the bypass valves are returned to their original closed position before running the mower again. Failure to fully close the bypass valves before operation could result in hydraulic system damage.

### TOWING WITH AN EVERRIDE MOWER


The EverRide mower is designed for pulling in light duty applications only. Never attempt to pull more than 250 lbs. (113.6 kg).

 **WARNING:** Exercise care when turning the EverRide mower while towing. The EverRide mower will turn more sharply than the towed object.

**IMPORTANT:** Attempting to pull more than 200 pounds (113.6 kg) with the EverRide mower will lead to premature parts failure that will not be covered under warranty.


**IMPORTANT:** Failure to close bypass valve completely before operation can result in hydraulic pump damage.

### PARKING THE POWER UNIT

 **CAUTION:** When parking the EverRide mower, stop the engine, lower the mower to the ground, move the motion control arms to the park position, turn the key to the “OFF” position and remove the key.

When parking on an incline, be sure to chock the wheels on the downhill side to prevent the power unit from rolling.

### LOADING THE MOWER

 **WARNING:** Exercise extreme caution when loading and unloading the unit from a ramp.



**WARNING:** Use only a single, full width ramp. If individual ramps are necessary, use several to simulate a single full width ramp. Use enough ramps to create an unbroken ramp surface wider than the unit.



**WARNING:** Never exceed a 15 degree angle between the ramps and the truck or trailer when loading the mower.



**WARNING:** Avoid sudden acceleration and deceleration of the unit when loading and unloading the unit to avoid the mower from tipping backward.

The ramp should be long enough that the angles between the truck or trailer do not exceed 15 degrees. A steeper angle may cause the mower deck components to get hung up when moving the mower from ramp to truck or trailer. If loading on or near a slope, position the truck or trailer on the down side of the slope and the ramps should extend up the slope. This will minimize the ramp angle. The trailer or truck should be parked as level as possible to facilitate smooth loading of the mower.

### TRANSPORTING THE MOWER

Use a heavy duty trailer or truck to transport the mower. Insure the trailer or truck has all of the necessary lighting and markings as required by law.

When transporting the mower, make sure the motion control arms are in the park position, the wheels have been blocked, the machine has been securely fastened by cables, chains or ropes, and the trailer has been secured to the towing vehicle with safety chains.



**WARNING:** Driving on a public street or roadway without turn signals, slow moving vehicle emblem, or reflective markings could lead to accidents causing serious personal injury or death. Do not drive the mower on a public street or roadway.

## GENERAL INFORMATION

The safe operation of the power unit and mower deck is the responsibility of the operator. The operator **MUST** be familiar with the mower and power unit controls, how they work, and all safety precautions **BEFORE** starting operation.

**IMPORTANT:** To avoid damage to the mower, re-torque all fastening hardware, including blade and spindle pulley retaining nuts, after the first hour of mowing operation.



**CAUTION:** Inspect the mowing blade bolts daily, or whenever a blade has been removed. Torque is 110 to 130 Ft. Lbs. (150-177 N•m).

## OPERATING SIDE DISCHARGE MOWERS

The mower has a hinged discharge shield that discharges the clippings out of the side of the deck and onto the ground.



**DANGER:** Without the discharge shield or a complete grass collector installed, you and others are exposed to rotating mower blades and thrown debris. Contact with the mower blades or flying debris could cause severe injury or death.



**DANGER:** Never remove the discharge shield from the mower because the deflector routes discharged material down toward the ground. If the discharge shield is ever damaged, do not use the mower until it has been replaced.



**DANGER:** Never put your hands or feet under the mower.



**DANGER:** Do not try to clear the mower discharge area or mower blades without first turning the mower PTO to off, turning the ignition key to off, removing the key and disconnecting the battery cable.

## TIPS FOR EFFICIENT MOWING

Blade sharpness affects the appearance of the mowed lawn. A dull or damaged blade will cause grass to appear torn or beaten off, rather than cut cleanly. Mowing blades should be checked regularly and kept sharp to insure the best lawn appearance.

Best results occur normally when the grass is maintained at a height of 2-3 inches (50mm-80mm). It is best to cut the grass often and not too short. To keep a healthy green lawn, do not cut more than 1/3 of the overall grass blade height.

Mower engine speed while mowing should be at the maximum rated RPM. This will insure proper blade speed for effective cutting and discharge of grass clippings.

Travel speed greatly affects mowing performance. The operator must use his or her own best judgment for the ground speed required for encountered mowing conditions. Always use a lower ground speed for slower mowing, rather than lowering the engine RPM.

Mow often! Do not wait for the grass to get too tall. Short grass clippings will disperse better and deteriorate faster.



**CAUTION:** Clear the area of people, pets, and all visible debris before beginning mowing operations.

Mowing areas with tall grass or weeds may require cutting at 6 inches (maximum) height of cut. After mowing once, recut the entire area with the mower reset to the desired final height of cut.

## 24 - OPERATING THE MOWER

When cutting along sidewalks, driveways, etc., it is advisable to mow with the discharge directed away from them for 2 or 3 passes. This will keep the grass clippings off of this area.

**⚠ WARNING:** Always keep the mower discharge directed away from people or animals which could be injured, or away from objects which could be damaged by debris thrown by the mowing blades.

The caster wheels on either side of the front of the mowing deck serve as a convenient mowing guide. When mowing, position the mower so the wheel overlaps the edge of the strip previously cut. This will assure full mowing coverage.

Always keep the left side of the mower toward trees, posts or any other obstacles on the first trip around them.

**⚠ CAUTION:** Mow only during daylight hours, or when the area is well lit artificially.

When transporting, always disengage the mower PTO.

**⚠ WARNING:** To avoid injury from flying debris, never operate the mower in the raised transport position.

### CUTTING HEIGHTS:

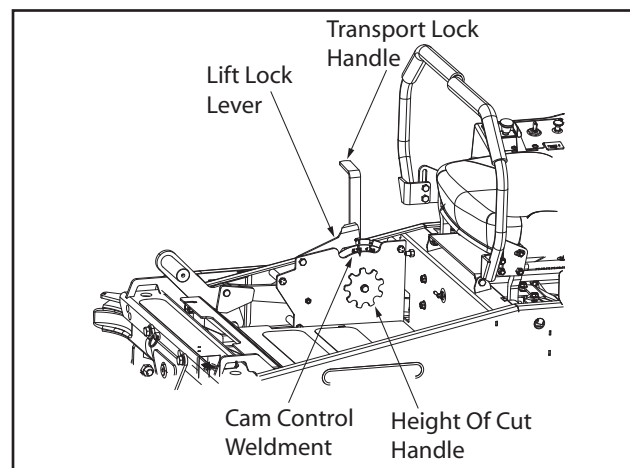
The mower can be adjusted to mow from 1 inch to 6 inches (25 - 152 mm) height of cut. Grass mowing height should be determined by encountered conditions and personal preferences.

The following recommendations are provided as a guide for cutting height selection.

Lawns = 1" to 3" (38-76 mm)  
Field Cutting = 3" to 6" (76-152 mm)

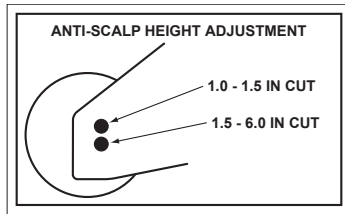
### ADJUSTING MOWER HEIGHT OF CUT

Raise the mower deck and place it into the transport lock position. Lift the lift lock lever and adjust the height of cut handle so the desired height of cut is shown on the cam control weldment. Lower the lift lock lever and make sure it is positively engaged in the groove for the desired height of cut. Lower the deck to the cut position out of the transport height position.



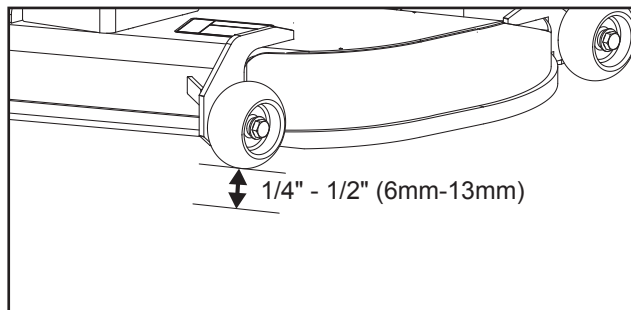
### GAUGE WHEEL ADJUSTMENT

1. Raise the mower by pushing down on the deck raise lever and lock into transport position.
2. Place the motion control arms in the park position.
3. After determining the desired height of cut, raise the lift lock lever and rotate the height of cut handle until cam control weldment is in the correct cut height location. Make sure the lock lever is inserted back into the appropriate notch in the wheel.
4. Set the anti-scalp adjustment to coincide with the height of cut which was chosen. To adjust the anti-scalp rollers, remove the 1/2-13 x 5 bolts and reinstall the bolts back in the appropriate hole for the desired height of cut. See illustration on page 25 for correct hole information.



5. Depress the deck raise lever and pull back on the transport lock lever and lower the deck back into the cut position.

The anti-scalp wheels should always be at least 1/4" - 1/2" (6mm - 13mm) off of the ground. They are meant to keep the deck from scalping the ground in uneven terrain, they are not meant to run along the ground all of the time.



### UNEVEN TERRAIN

Pre-plan mowing over uneven terrain so the grass will be dry, minimizing wheel slippage and spinning, which will damage the turf.

**WARNING:** To avoid the loss of control and to prevent overturning the mower, always mow across slopes, never up and down.

Pass diagonally through sharp dips. Avoid sharp drop offs completely to prevent "hanging up" the mower.

**CAUTION:** Keep the power unit motion control arms forward when going downhill.

Before mowing, check the area to determine the best procedure. Consider the grass type and height, and the type of uneven terrain on which the mowing is to take place.

Avoid sudden starts and stops while traveling up or down hill, and slow the ground speed while turning.

### GRASS DISCHARGE

The mower deck has been designed to provide maximum air flow for an even discharge of grass clippings. When mowing tall, or lush grasses, select a lower mower ground speed, or reduce the width of cut, for the best discharge efficiency.

**WARNING:** Never operate the mower with the discharge shield in the raised position.

For the best lawn appearance, do not mow when the grass is wet or heavy with dew. Wet grass could plug the discharge area of the mower, creating an unnatural load through the blades and spindles, possibly damaging the mower deck belt. Wet grass will also leave unsightly clumps on the lawn.

If the mower deck should become clogged, back the unit out of the uncut grass. If the mower will not clear itself, raise the deck, shut off the engine, set the brake, and clean the bottom of the deck.

**WARNING:** The operator should never attempt to leave the mower seat, with the mower blades rotating, with the mower in motion, or when the engine is running.

In medium and heavy cutting conditions, mow so the discharged clippings will be AWAY from the uncut grass. In light cutting, discharged clippings can be directed onto the uncut grass, allowing them to be recut finer, leaving the lawn almost free of unsightly clippings.

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## 26 - PARTS

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### PARTS

Use only genuine EverRide service parts. Off the shelf (after market) repair parts may compromise the integrity of the unit. Parts that do not meet EverRide specifications may fail, causing injury, equipment or property damage.

Our part numbers can change. When ordering, use the part numbers listed below. If the numbers do change, your EverRide dealer will have the correct numbers.

When ordering, make sure to have your power unit and engine serial numbers readily available. You should have recorded these numbers on the identification section of this manual.

Common Mower Parts

Item	Part No.
Belt, Deck - 54"	181036
Belt, Deck - 60"	112616
Blades, Mower - 54" Deck	181042
Blades, Mower - 60" Deck	181026
Discharge Shield	181173
Shield, LH Deck Belt - 54"	180778
Shield, LH Deck Belt - 60"	180496
Shield, RH Deck Belt - 54"-60"	180494
Spindle Assembly - Center	180440
Spindle Assembly - Outer	163392
Spindle Bearing Kit	180925
Spring, Extension - Deck Tension	104657
Wheel, Gauge - 5.0"	162701

Common Tractor Parts

Item	Part No.
Air Filter, Primary	181071
Air Filter, Secondary	181072
Belt, Clutch To Deck	181139
Belt, Hydraulic Pump Drive	180932
Cable, Choke - Kawasaki 25 H.P.	180273
Cable, Choke - Kohler 27 H.P.	181143
Cable, Throttle	180272
Dampener, Steering Control	180231
Engine Oil Filter - Kawasaki 25 H.P.	181073
Engine Oil Filter - Kohler 27 H.P.	191190
Fuel Filter	181060
Fuel Tank Cap	181251
Hydraulic Oil Filter	180909
Hydraulic Oil Reservoir Cap	181210
Key, Ignition	105684
Pump Cooler Fan	180993
Solenoid, Starter	180640
Switch, Ignition	180620
Switch, PTO Engagement	136574
Switch, Seat Safety	181074
Wheel Fork Weldment	180256
Wire Harness	181140



**LUBRICATION AND PERIODIC MAINTENANCE**

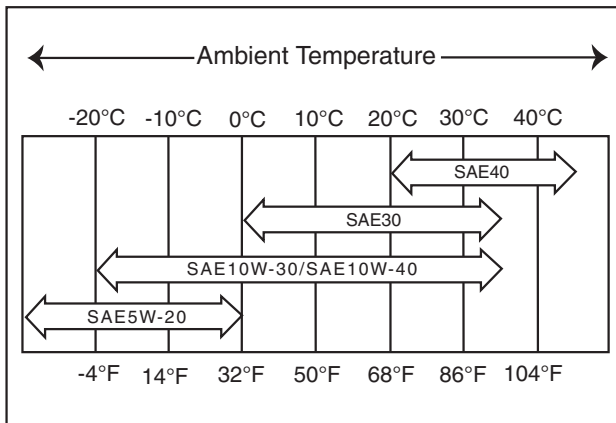
**SPECIFICATIONS AND CAPACITIES**

**Engine Oil**

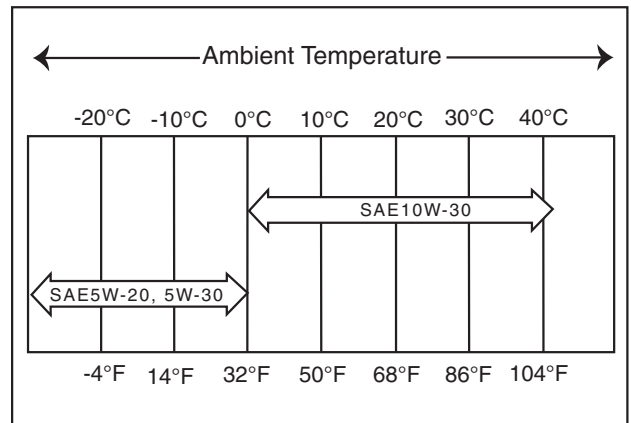
Use the appropriate SAE viscosity. Oil must meet or exceed; API Service "SF", "SG", "SH", or "SJ" requirements.

Capacity (Crankcase and Filter)..... 1.9 U.S. qts. (1.8 L) - 25 H.P. Kawasaki  
 2.0 U.S. qts. (1.9 L) - 27 H.P. Kohler

Recommended Viscosity:



25 H.P. Kawasaki



27 H.P. Kohler

**Recommended Change Interval**

Initial Oil and Filter Change..... 8 hours

Oil and Filter Change, Thereafter..... Every 100 hours

**Fuel Tank**

Capacity..... 11.83 U.S. gals. (44.8 liters)

Fuel Recommended..... Unleaded 87 Octane or Greater

**Hydraulic System**

Capacity..... 1 gal. (3.8 liters)

Recommended Oil Viscosity..... SAE 20W-50

## 28 - LUBRICATION AND MAINTENANCE

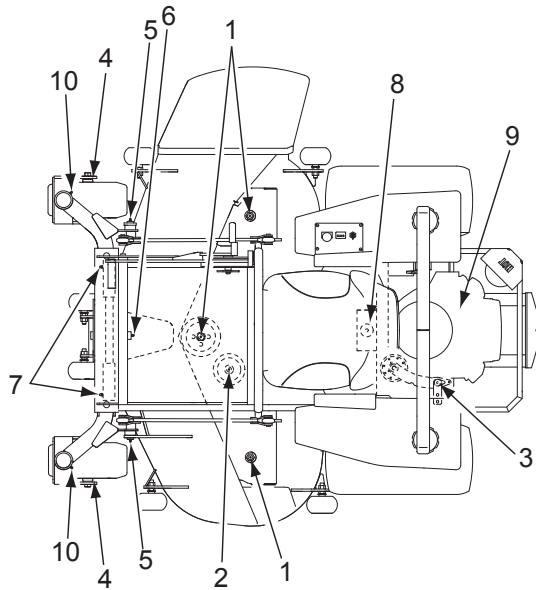
Initial Hydraulic Oil and Filter Change.....	50 hours
Hydraulic Oil and Filter Change, Thereafter.....	300 hours

### Grease Fittings

**NOTE:** To insure the cavity is completely full, grease should vent out of the top seal.

Grease Interval (All fittings).....	See Chart Below
Recommended Grease.....	NLGI No. 2 Grease

**NOTE:** Change intervals stated above are for normal usage. Due to adverse operating conditions that may be experienced (extremely dusty or muddy), change intervals may need to be more frequent.



### LUBRICATION INTERVALS

REF	DESCRIPTION	FREQUENCY
1	BLADE SPINDLES (3)	25 HOURS
2	DECK PIVOT IDLER (1)	25 HOURS
3	PUMP DRIVE TENSION (1)	25 HOURS
4	FRONT WHEEL AXLES (2)	40 HOURS
5	LIFT LINK PIVOTS (2)	40 HOURS
6	FRONT AXLE PIVOT (1)	40 HOURS
7	DRAG LINK PIVOTS (2)	40 HOURS
8	HYDRAULIC FLUID LEVEL	DAILY
9	ENGINE OIL LEVEL	DAILY
10	WHEEL FORK PIVOTS (2)	YEARLY

## PERIODIC MAINTENANCE SCHEDULE

Recommended Interval, Each:

Day	50 hr	100 hr	250 hr	Item To Check	Action Required
.				All controls, switches	Inspect and repair
.				All fasteners, hardware	Check and tighten
.				Hoses, fan belt, wiring	Inspect and repair
.	.			Grease fittings	Lubricate
.				Engine oil level	Check and replenish
(*)		.		Engine oil and filter	Replace
.				Hydraulic oil level	Check and replenish
	(*)		.	Hydraulic oil & filter	Replace
.				Air screens	Clean off debris
.				Air cleaner dust ejector	Clean
[.]			.	Air cleaner elements	Inspect, clean or replace
.				Fuel tank level	Refill to full level
.				Fuel filter sediment bowl	Inspect and clean
		.		Fuel filter element	Replace
	.			Battery electrolyte level	Check and replenish
.				Brake adjustment & balance	Check and adjust
.				Tire pressure & condition	Check and adjust
.				Wheel bolt torque	Check and tighten
.				Steering free-play	Check and repair
.				Check safety shut off system	Check and repair
.				Clean grass buildup from deck	Clean
.				Inspect mower blades	Check, sharpen or replace
.				Check for loose hardware	Replace or re-torque
.				Inspect belts	Tension or replace

Items marked (\*) indicate initial service interval only. Subsequent (later) intervals marked “.”. Intervals above are for normal usage. Items marked [.] should be cleaned and inspected every 25 hours. Severe operating conditions (wet, dusty, etc.), or when previous servicing has indicated need for more frequent action, intervals may need to be more often.

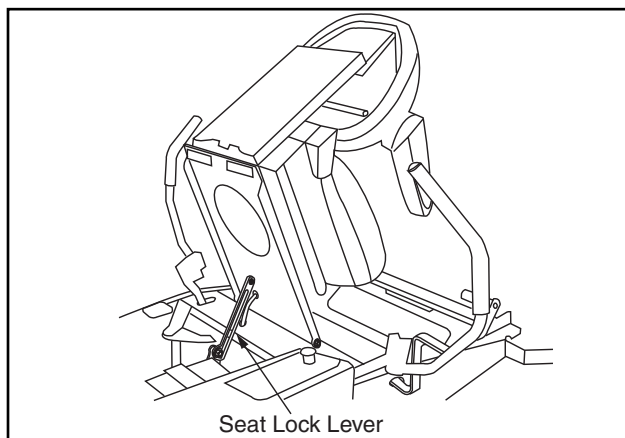
### AVOID FUMES

- ⚠ CAUTION:** Engine exhaust fumes contain carbon monoxide and can cause serious illness or death.
- ⚠ CAUTION:** Never run the mower's engine inside an enclosed area. Operate it only outside or in a location with proper ventilation.

### SERVICE ACCESS

- ⚠ CAUTION:** Shut off the engine before servicing the mower.
- ⚠ CAUTION:** Make sure the seat is fully raised and locked before performing any maintenance on the mower.
- ⚠ CAUTION:** The seat can come down very quickly once the seat lock lever is released. Lower the seat slowly making sure to pay close attention that everything is clear.

To access the battery and the hydraulic reservoir it is necessary to raise the seat of the power unit. Use caution while lifting and insure the seat is locked in the upright position before beginning service on the mower.

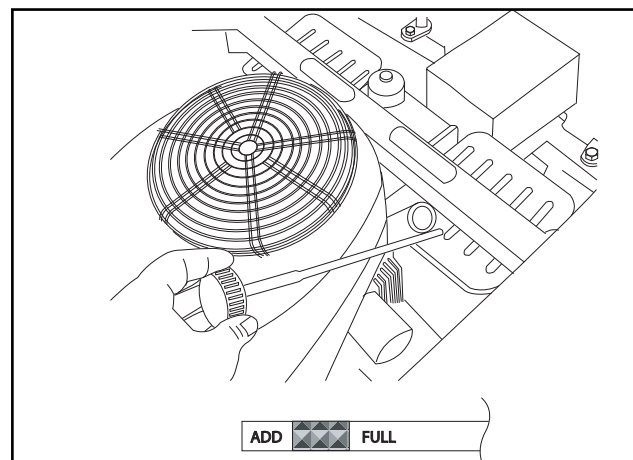


To lower the seat back down, push forward on the seat slightly and pull the lift lever rearward out of the lock position. Lower the seat slowly back into contact with the frame.

### ENGINE OIL LEVEL

**IMPORTANT:** Failure to check the engine oil level regularly could lead to serious engine problems if oil is too low.

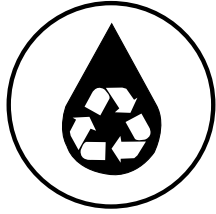
The mower must be parked on level ground with the engine off. Clean the area around the dipstick before removing it. Remove the dipstick and check that the oil level is between the upper limit and the lower limit on the dipstick. Wipe off dipstick, momentarily reinstall in engine (WITHOUT TURNING IT) and check oil level again. Add oil as necessary to achieve the desired level. **DO NOT OVERFILL.** Reinstall and tighten the dipstick.



**IMPORTANT:** Use caution to prevent from overfilling the engine with oil.

**IMPORTANT:** Use only the oil specified for use in the engine owner's manual.

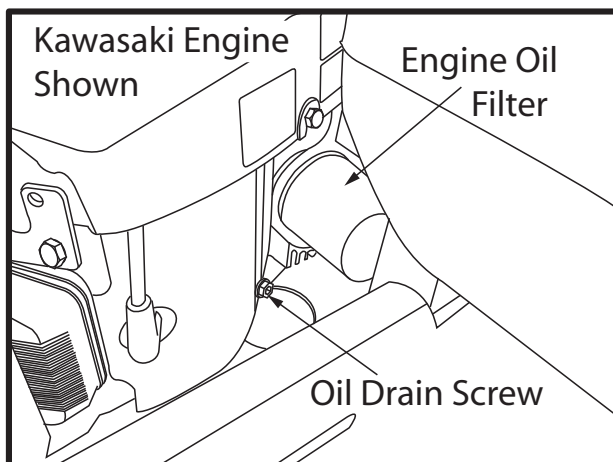
## CHANGING THE ENGINE OIL



**WARNING:** Engine oil is a toxic substance. Dispose of used oil properly. Contact your local authorities for approved disposal methods or possible recycling.

Change the engine oil after 8 hours of operation. Change the oil each subsequent 100 hours of operation after the initial change.

1. Run the engine to warm the oil.
2. Park the mower on level ground.
3. Stop the engine, put the motion control arms in the park position and remove the key.
4. Remove the oil drain screw and drain the oil into a suitable container while the engine is still warm.



**WARNING:** Hot engine oil can cause severe burns. Allow engine oil temperature to drop from hot to warm before attempting to drain and handle the oil.

5. Install the oil drain screw.
6. Remove the dipstick and refill with fresh oil.
7. Check the oil level.

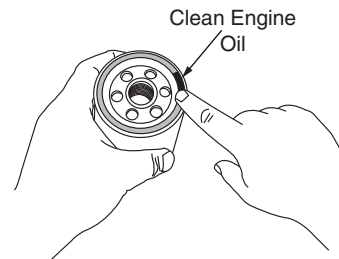
## OIL FILTER CHANGE

Change the engine oil filter initially after the first 8 hours of use. Change the engine oil filter every 100 hours of operation after the initial change.

1. Drain the engine oil into a suitable container.


**CAUTION:** Before removing the oil filter, place a suitable pan under the filter connection.

2. Clean the area around the oil filter to keep dirt and debris from the engine and rotate the oil filter counterclockwise to remove it. Wipe off the surface where the filter mounts.
3. Coat a film of clean engine oil on the seal of the new filter.



4. Install a new filter rotating it clockwise until the seal contacts the mounting surface. Rotate the filter 3/4 of a turn more by hand.
5. Refill with engine oil as specified.
6. Run the engine for about 3 minutes, stop engine, and check for leakage around filter.

### HYDROSTATIC MAINTENANCE


 **CAUTION:** Avoid damage to the hydraulic components as a result of contamination. Be sure to wipe around the filler neck and cap before removal of the hydraulic oil reservoir cap. Do not open the oil reservoir cap unless it is absolutely necessary.

Check the reservoir daily for the proper fluid level.

The pump and motor units require fluid changes yearly or every 250 hours whichever occurs first. The system filter should be changed initially after the first 50 hours of break in. The fluid and filter should be changed and the system cleaned if the fluid would become contaminated with dirt, water, etc.

**NOTE:** The integrated pump/motor units are equipped with bypass valves. Please note information in the operation section in relation to moving a stalled power unit.

### CHANGING HYDRAULIC FLUID

 **CAUTION:** Be sure the engine has been stopped, the motion control arms are in the park position, and the key has been removed before changing or checking the hydraulic oil in the mower.

 **CAUTION:** Allow the hydraulic fluid an opportunity to cool. The oil may be hot and could cause serious burns.

1. Park the machine on a level surface, stop the engine, put the motion control arms in the park position and remove the key.
2. Clean the area around the reservoir filler cap and remove the filler cap from the reservoir.

3. To drain the hydraulic fluid, place a suitable container under the hydraulic filter and remove it.
4. Place a thin coat of hydraulic oil on the gasket on the oil filter.
5. Install the hydraulic oil filter onto the filter adapter.
6. Refill the hydraulic reservoir to the recommended level. Reinstall the oil reservoir filler cap.
7. Clean up any fluid which may have spilled.

### BLEEDING/PURGING THE HYDRAULICS

**IMPORTANT:** Air in the hydraulic system is the NUMBER ONE cause of hydraulic pump failures. In all cases following hydraulic system service or repair, the hydraulic system MUST be correctly purged of trapped air before placing the zero-turn mower back in operation.

1. Make sure the oil tank is full, the oil must barely cover the fill baffle inside of the tank.
2. Raise the rear unit tires off the floor and place it on suitable jack stands.
3. Open both pump bypass valves, one on each pump, two full turns.
4. Sitting in the operator's seat, start the engine and run it at idle.
5. Slowly cycle the motion control arms full forward and full reverse for 10 seconds in each direction, 5 or 6 times. This allows no load oil flow between the pumps and wheel motors.  
**NOTE:** The rear tires should rotate, but they'll not be under load.
6. Shut off the engine, check and add hydraulic oil as necessary.

7. Close the bypass valves on both pumps. Do not over tighten.
8. Sitting in the operator's seat, start the engine and run it at idle.
9. Slowly cycle the motion control arms full forward and full reverse, 5 or 6 times.

**IMPORTANT:** The rear tires are now rotating under power. Do not touch or contact them. If they do not rotate after 2-3 cycles, stop immediately. There may still be air in the system. Let the pumps cool and try purging again from the beginning.

10. Shut off the engine, check and add hydraulic oil as necessary and lower the unit back to the floor.

**NOTE:** It may be necessary to repeat purging procedures until all air is vented out of the hydraulic system.

## CHECKING THE HYDRAULIC HOSES

Inspect the hydraulic hoses to insure they are in good working order every 200 hours.

Check both the hoses and hose clamps to insure there is no wear or damage. If either is found worn or damaged, repair or replace them at once.

## BATTERY MAINTENANCE



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

The original battery shipped with the mower is either maintenance free and non-accessible or maintainable.

If your battery has vented caps, it will be required to check the electrolyte levels. It is recommended to check the electrolyte levels weekly or every 40 hours, whichever comes first.

Dirt and fluid on the top of the battery can cause it to discharge. Corrosion on the battery posts or battery terminals can cause poor battery performance.

If the battery is weak, the engine will be difficult to start. It is important to check the battery performance periodically.

1. Remove the battery from the machine; Refer to removing the battery on page 34.
2. Clean the top of the battery and remove the vent caps for the battery. Visually inspect the electrolyte levels in the cells. If electrolyte is below the bottom of the vent well, fill with clean distilled water to the bottom of the vent wells (1/4 to 1/2 inch above plates) Reinstall the vent caps.
3. Clean the cable ends and battery posts with steel wool. Use a solution of baking soda and water to clean the battery. Do not allow the solution to enter the battery cells.

**IMPORTANT:** Electrolytes are very corrosive. Do not fill the battery while it is installed as severe frame corrosion could result.

## INSTALLING THE BATTERY

1. Insert the battery (1) in the tray with the battery posts facing to the left.
2. Install the positive battery cable to the positive post on the battery.
3. Install the negative battery cable to the negative post on the battery.
4. Secure the cables by inserting a 5/16-18 x 5/8 carriage bolt through the battery post and through the battery cable. Secure it with a 5/16-18 whiz locknut.


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## 34 - LUBRICATION & MAINTENANCE


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5. Install the red terminal boot over both the positive post and the positive cable.
6. Secure the battery in place by inserting one end of the hook band into the battery tray and running the other end over the top of the battery into the slot on the opposite end of the battery tray.
5. Slide the rubber strap out from the battery tray. Carefully release the strap and slide the opposite end out of the hooks on the battery trays.
6. Carefully remove the battery using caution to avoid touching the terminal posts on any metal parts.

### REMOVING THE BATTERY


 **WARNING:** The battery terminals or metal tools could short against the metal components of the mower causing a spark that could ignite explosive battery gases. When removing the battery from the mower, do not allow the battery terminals to touch any part of the machine. Do not allow metal tools to touch metal parts of the machine while in contact with the battery terminals.

 **WARNING:** Incorrect battery cable routing could damage the mower or cause a spark that could result in explosive battery gases being ignited.

 **WARNING:** Always disconnect the black (negative) battery cable before disconnecting the red (positive) battery cable. Always reconnect the red (positive) battery cable first before reconnecting the black (negative) battery cable.

1. Disengage the mower PTO switch, put the motion control arms in the park position, turn the ignition key to off and remove the key.
2. Raise the seat and lock it in the upright position.
3. Disconnect the negative battery cable from the battery terminal.
4. Slide the red boot off of the positive battery terminal and remove the positive battery cable.


### CHARGING THE BATTERY

 **WARNING:** Charging the battery produces explosive gases. Never smoke near the battery and keep sparks and flames away.

**IMPORTANT:** Always keep the battery fully charged. This is extremely important when the temperature is below freezing. (32 degrees Fahrenheit or 0 degrees Celsius)

1. Remove the battery from the battery compartment under the seat. (see "Removing The Battery")
2. Check the electrolyte level.
3. Make sure the filler caps have been reinstalled on the battery and charge the battery 10-15 minutes on 25-30 amps or 30 minutes at 4-6 amps.
4. After the battery has been fully charged, disconnect the charger from the power source and then disconnect the battery from the charger.
5. Install the battery in the machine and connect the battery cables.

### CLEANING BATTERY AND TERMINALS

 **CAUTION:** The battery produces a flammable and explosive gas. The battery may explode. Do not smoke near the battery. Always wear eye protection and



**gloves. Do not allow direct metal contact across the battery posts. Always remove the negative battery cable first when removing the battery.**

1. Disconnect and remove the battery.
2. Wash the battery with a solution consisting of four tablespoons of baking soda to one gallon of water. Use caution to insure the solution does not get into the battery cells.
3. Rinse the battery with plain water and allow to dry.
4. Clean the terminals and wire ends with a wire brush until they are bright.
5. Reinstall the battery.
6. Reattach the battery cables.
7. Apply a petroleum jelly or a silicone spray to prevent corrosion.

## REPLACING FUSES

**IMPORTANT: Avoid damage to the electrical circuit. Use only the same size fuse as was originally installed.**

There are two fuses on your EverRide mower. On the Kawasaki 25 H.P. unit, one is located on the plastic shroud on the left hand side of the engine and the other is located on the left hand side of the frame next to the starter solenoid. Both are 20 amp fuses.

On the Kohler 27 H.P. engine, one 20 amp fuse is located on the engine shroud on the left hand side of the engine and the other one is an AGC 30 amp fuse which is part of the engine harness.

1. Remove the defective fuse from the socket.

2. Check the metal clip in the fuse window and discard the fuse if it is broken.
3. Install the new fuse in its socket.

## SAFETY CHECKS

Check all safety switches daily. Use the following instructions to check the performance of the system. If any of these tests should fail, it is necessary to have the unit repaired immediately.

1. Try to start the power unit when the operator is in the seat, the mower PTO off, and the left hand motion control arm not in the park position. Try to start the power unit after switching the RH arm out of the park position and putting the LH motion control arm into the park position. Try starting the power unit after taking both arms out of the park position. The starter must not crank in any of these instances.
2. Try to start the power unit when the operator is in the seat, the mower PTO on, and the motion control arms in the park position. The starter must not crank in this situation.
3. Try to start the power unit when the operator is not in the seat and the motion control arms are in the park position. The starter must not crank in this situation.

## CHECKING THE KILL CIRCUITS

Check the kill circuits daily.

1. Run engine at 1/3 throttle, engage the mower PTO and lift off of the seat. The engine should stop within 3 seconds.
2. Run engine at 1/3 throttle, engage the mower PTO, move a motion control arm out of the neutral lock and lift off of the seat. The engine should again stop within 3 seconds. Repeat for the opposite motion control arm.

**NOTE:** If the machine does not pass this test, DO NOT OPERATE. Take it to your EverRide Service Dealer.

### LIFT ASSIST SPRING



**CAUTION:** The lift assist spring can be under extreme pressure. Exercise extreme caution when adjusting or replacing this spring.

The deck lift assist spring is installed to help maximize deck performance and minimize driver fatigue.

To adjust the lift assist spring, lower the mower deck to the lowest position. Adjust the spring by torquing the nut until the deck wants to raise off of the ground and then back the nut off one turn.

### NEUTRAL ADJUSTMENT

Before making any adjustments, be sure to check the tire air pressure. Incorrect air pressure can cause the unit to pull to one side. The correct air pressure is 20 p.s.i. in the front wheels and 12 p.s.i. in the rear.

1. Stop the engine and remove the ignition key.
2. Tilt the seat forward.
3. Move the control lever rearward and release the control lever. This control lever should return to a position where the control lever can be swung outward and lock in the neutral outward position.
4. If adjustment is needed, move the control lever back to the inward position and begin to pull rearward. At this beginning rearward motion the clevis pin should begin to contact the end of the slot and start putting pressure on the spring.
5. If adjustment is needed, loosen the nut against the yoke and while applying slight rearward

pressure on the motion control lever, turn the head of the adjustment bolt in the appropriate direction until the lever is centered.

6. Move the control lever rearward and release the control lever. This control lever should return to a position where the control lever can be swung outward and lock in the neutral outward position.

### SERVICING THE CASTER WHEEL ROLLER BEARINGS

1. Park the unit on a level service, put the motion control arms in the park position, turn off the engine and remove the key.
2. Raise the front of the power unit and support it with jackstands.
3. Remove the lock nut, bolt and wheel assembly from the wheel fork assembly.
4. Remove the seals, bearings and the spacer tube from the wheel assembly.
5. Clean and inspect the bearings and pack with clean grease. Replace bearings as needed.
6. Install the spacer tube, bearings, and new seals.
7. Install the wheel assembly using the bolt and locknut removed in step 3.

### SERVICING THE CASTER PIVOT BEARINGS

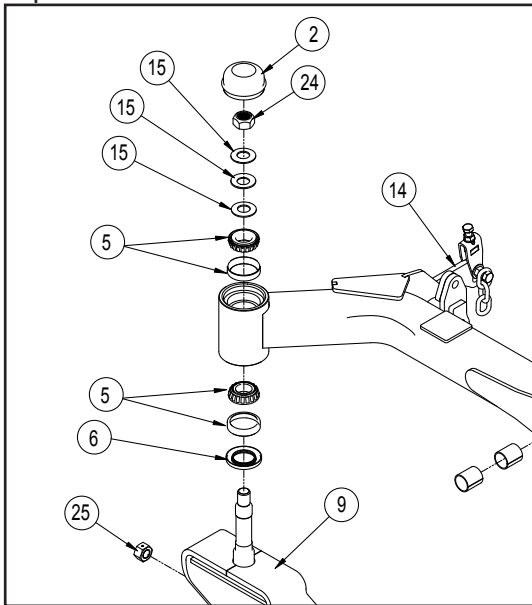
1. Park the unit on a level surface, put the motion control arms in the park position, turn off the engine and remove the key.
2. Raise the front of the power unit and support it with jackstands.
3. Remove the cap (2), the 3/4 locknut (24), the three 3/4 belleville washers (15), and the front wheel weldment (9).

**NOTE: It is not necessary to remove the bearing cup unless the bearings need to be replaced.**

4. Remove the lower seal (4) and the lower bearing (6).
5. Remove the upper bearing.
6. Clean and inspect the bearings and pack with clean grease. Replace the bearings if needed.
7. Reinstall the lower bearing and a new seal.
8. Reinstall the upper bearing.

**NOTE: Do not overtighten the 3/4 locknut. Tighten the locknut only enough to remove any excessive play from the bearings.**

9. Apply grease to the grease fitting until grease appears at the top bearing. Reinstall the cap.



### MOTION CONTROL ADJUSTMENT

When the unit is in motion and one arm is more

forward than the other when driving in a straight line, the motion control arms are out of adjustment. While traveling, turn the tracking knob to the left or the right to increase or decrease the tractor wheel speed and make the motion control arms equal.

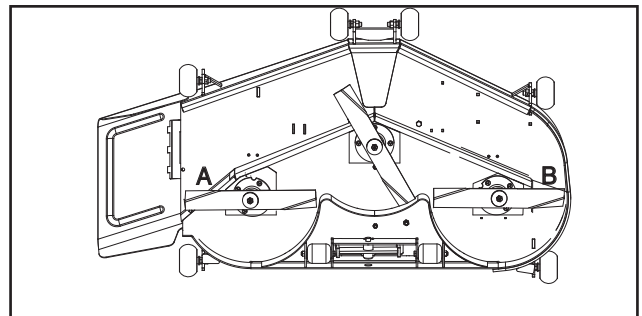
**NOTE:** The motion control arms need to be even in both neutral or park.

### LEVELING THE DECK



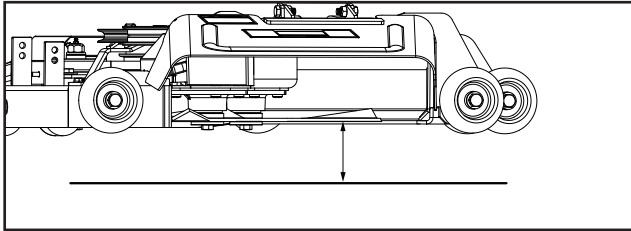
**CAUTION: Stop the engine, put the motion control arms in the park position and remove the key from the ignition before performing any maintenance or repairs on this unit.**

1. Set the front tire pressure to 20 p.s.i. and the rear tire pressure to 12 p.s.i.
2. Place the mower on a level surface.
3. Raise the mower deck to the transport lock position and adjust the cut height to 3 inches.
4. Lower the deck back to cut position.
5. Set both of the outside blades to be perpendicular to the mower as shown.



6. Measure the height of the blade tips on both A and B and adjust the front adjustment bolts and the rear U-bolts to insure the deck is level from left to right.
7. Rotate the mower blades so they are parallel to the mower deck. Use the rear adjustment bolts to adjust the deck so that the rear blade tip is 1/4" higher than the front blade tip on the same blade.

Measure the blade heights to make sure they match what is shown on the height of cut dial. The height is measured as the distance between the ground and the bottom of the blade. If the blade height does not match the dial height, see Synchronizing Height of Cut.



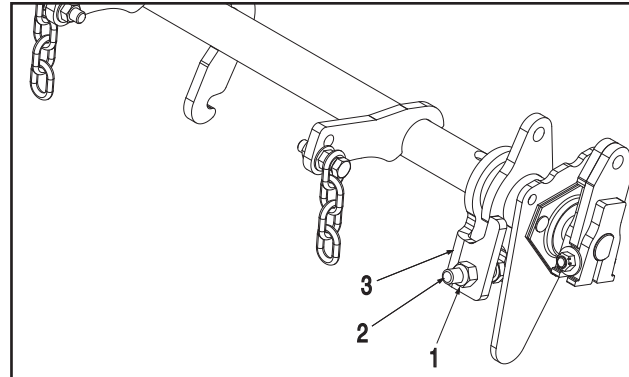
### SYNCHRONIZING HEIGHT OF CUT



**CAUTION:** Stop the engine, put the motion control arms in the park position and remove the key from the ignition before performing any maintenance or repairs on this unit.

**NOTE:** It is necessary to insure the deck is level before synchronizing the height of cut dial with the deck blade height.

1. Raise the mower deck to the transport position. Take the weight off of the deck lift linkage by inserting wood blocks under each corner of the deck and slowly lowering it until it is resting on the blocks.
2. Loosen the 1/2-13 hex nut (1). If the blade height is lower than the height of cut knob, loosen the 1/2-13 x 1.75 (2) bolt which runs through the height of cut rotation adjustment weldment (3). If the blade height is higher than the height of cut knob, tighten the 1/2-13 x 1.75 bolt which runs through the height of cut rotation adjustment weldment.



3. Tighten the 1/2-13 hex nut back down to lock it into position.
4. Raise the deck back to the transport height and remove the blocks from below the deck. Measure the blade height again to insure it now matches the height on the dial. If not, then repeat the prior steps until the two heights are synchronized.

### DRIVE ADJUSTMENTS

Steering and motion controls should be uniform during forward and reverse motions. The motion control arms should always return to neutral when released.



**CAUTION:** Never make any adjustments unless the engine has been stopped, the motion control arms are in the park position, and the ignition key has been removed.

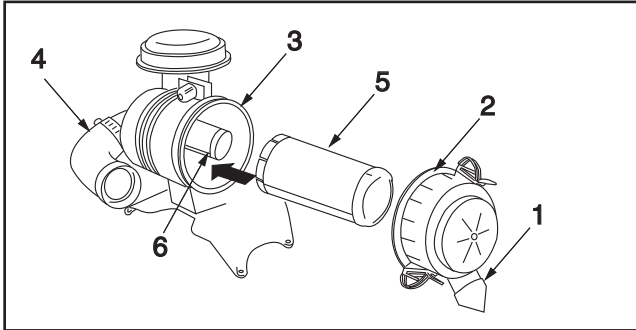
### ENGINE AIR CLEANER SERVICE



**CAUTION:** To prevent excessive engine wear, do not run the engine without the air cleaner installed.

**IMPORTANT:** The engine is air cooled and requires a large amount of air intake when running. Reduced air intake can cause overheating. Always keep air intake screen and cooling fins clean. Always keep the covers and screens in place.

**⚠ CAUTION: Touching hot surfaces can burn skin. The engine and components will be hot after the unit has been running. Allow the engine and components to cool before servicing the unit.**



The Unloader Valve (1) will allow for the removal of fine dirt and dust from the canister body (3) without disassembly. While in operation, this valve will suck closed at 1/3 to 1/2 throttle.

- With the engine shut off, squeeze the valve by hand to release dust and debris.
- In very dusty operating conditions, the valve may have to be opened every 2 to 3 hours.

Remove the air cleaner cover and make a general inspection of the entire assembly. If it is unusually dirty or if dirt build-up is easily visible on the inside of the canister body, the entire assembly, including the inlet hose, must be removed from the carburetor and engine.

With the air cleaner removed from the engine, and with the cartridges and gaskets removed, wash the hard parts with cleaning solvent and blow them dry with compressed air. **Do not wash the air cleaner cartridges!**

**NOTE:** If canister gaskets are broken or missing, BOTH air cleaner elements MUST be replaced.

Inspect and clean the primary air cleaner cartridge

(5) assembly every 25 hours. Replace the paper element yearly or every 250 hours, whichever comes first.

The primary (large) cartridge is cleaned by rolling and “tapping” it on a hard surface. If the paper pleats are punctured or torn, the primary element must be replaced.

Replace the secondary cartridge (6) yearly or every 250 hours whichever comes first.

**IMPORTANT: DO NOT** attempt to clean the secondary element. This filter element must be replaced if it is unusually dirty or damaged.

**NOTE:** Operation in dusty conditions may require more frequent maintenance of the primary and secondary air cleaner cartridges.

**⚠ CAUTION: Do not use pressurized air to clean paper element.**

## FUEL SYSTEM SERVICE

**⚠ CAUTION: Fuel vapors are explosive and flammable. Do not smoke while handling fuel. Keep fuel away from flames or sparks. Shut off engine before servicing. Always work in a well ventilated area. Clean up spilled fuel immediately.**

**⚠ CAUTION: Be sure the engine is stopped, the motion control arms are in the park position and the key is removed before making these repairs.**

**⚠ CAUTION: Be sure to inspect the fuel lines periodically. The lines are subject to deterioration and wear. Fuel could leak out onto a running engine and cause a fire.**



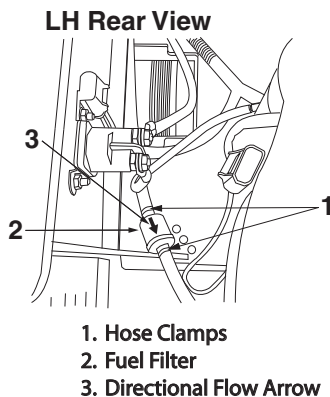
**WARNING:** Improper use of solvents can result in fire or explosion. Do not use gasoline or low flash point solvents to clean the fuel filter and/or the fuel pump. Clean only in a well ventilated area away from sources of sparks or flame, including any appliances with a pilot light.

**IMPORTANT:** Special care should be taken when the fuel lines are removed for maintenance or repair. Close both ends of the fuel line with a piece of paper or a clean cloth to prevent dust or dirt particles from contaminating the fuel. Even a small amount of dust or dirt can cause premature wear or failure of fuel components.

The fuel line connections are composed of rubber and they will age regardless of the service period. If there is any deterioration of the fuel lines or clamps, replace them.

Check the fuel filter regularly. If it is clogged by debris or contaminated with water, replace it.

The fuel filter cannot be disassembled. If the fuel filter becomes clogged, replace it with a new one.



1. Park the machine safely.
2. Turn the fuel shut off valve to the OFF position.

3. Disconnect the hose clamps (1) from the fuel filter.
4. Slide the fuel line off of both ends of the fuel filter (2).
5. Install the new fuel filter paying close attention to the flow direction (3) noted on the fuel filter.
6. Turn the fuel shut off to the ON position.

The fuel pump can not be disassembled. If the fuel pump fails, replace it with a new one.

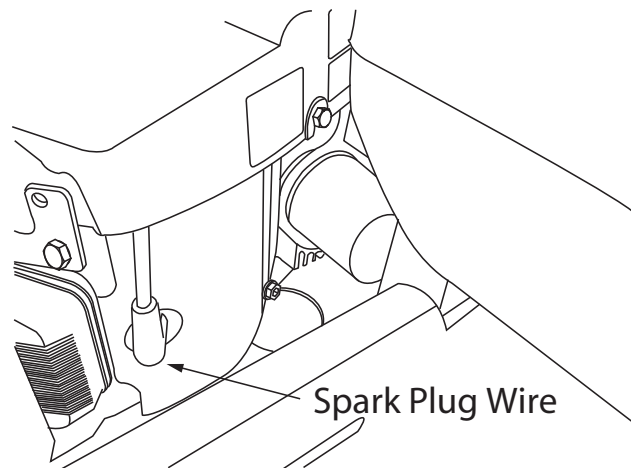
### SPARK PLUG SERVICE



**WARNING:** Hot Engine components can cause severe burns. Stop engine and allow it to cool before checking the spark plug.

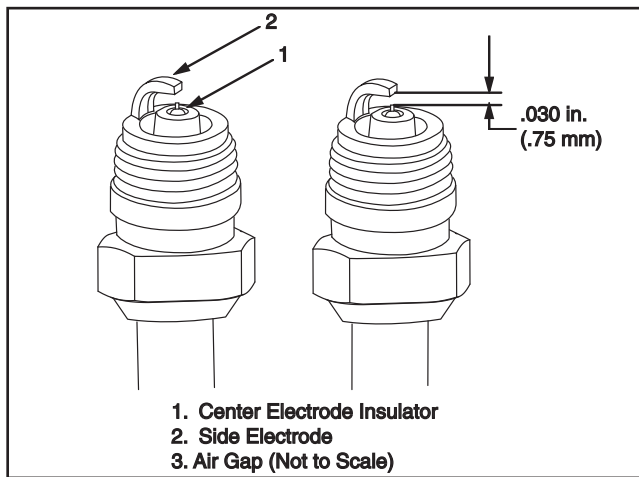
Clean or replace the spark plug and reset the gap every 100 hours of operation.

1. Disconnect the spark plug wire lead and remove the spark plug.



2. Clean the electrodes by scraping with a wire brush to remove carbon deposits.

3. Inspect for cracked porcelain or other wear and damage. If any wear or damage is evident, replace with a new spark plug.
4. Check the spark plug gap and reset if necessary. The correct gap should be .75 mm or .030 inches. To change the gap, bend only the side electrode using a spark plug tool.



5. Install and tighten the spark plug to 22 N-m (16 ft. lbs.). Reconnect the spark plug wire lead.

See the engine operator's manual for the recommended spark plug for your engine.

## COOLING SYSTEM CLEANING

Before each use check to make sure the air intake screen is free from grass and debris and clean if necessary.

Every 100 hours, it is necessary to check and clean the cooling fins and inside the engine shrouds to remove grass, chaff or dirt clogging the cooling system and causing overheating.



**CAUTION: Do not run the engine before all cooling system parts are reinstalled to keep the cooling and carburetion as intended.**

## SEASONAL STORAGE

Your EverRide mower represents an investment which you should get the greatest possible benefit. Therefore, when the mowing season is over, the mower should be thoroughly checked and prepared for storage so a minimum amount of time will be required to put it to work for the next season.

The following procedures are recommended for seasonal storage.

1. Thoroughly clean entire EverRide mower, especially the engine and the top and underside of the deck.
2. Remove, replace, or sharpen the mowing blades.
3. Check and adjust the deck belt.
4. Service the EverRide mower as noted on the lubrication schedule on page 28. Tighten all fasteners to the recommended torque, as shown on the Bolt Torque Chart on page 46.
5. Check the mower for damaged or excessively worn parts. Make replacements immediately with genuine EverRide service parts.
6. Power units to be stored over 30 days should be completely drained of fuel to prevent gum deposits from forming on essential carburetor parts, fuel filter, and the tank.
7. Repaint or spray touch up paint on the mower where necessary to prevent corrosion and to maintain the appearance. Replace all illegible safety decals.
8. Store the mower in a clean, dry location. If the mower will be removed for storage, make sure it is resting on blocks with the wheels raised from the ground or floor.
9. Change the power unit engine oil before the first use after storage. See "Changing the Engine Oil" on page 31.

### FUEL SYSTEM DRAINING

Machines to be stored for over 30 days should have the fuel drained from the engine to prevent gum deposits from forming on essential carburetor parts, fuel filter, and tank.

**⚠ WARNING: Gasoline is extremely flammable and can be explosive under certain conditions.**

**⚠ WARNING: Drain fuel before storing the unit for extended periods.**

**⚠ WARNING: Drain fuel in a well ventilated area away from any source of flame or sparks, including any appliances with a pilot light.**

**⚠ WARNING: Store fuel in an approved container in a safe location.**

1. Clean every part of the engine thoroughly.
2. Be sure the key switch is in the "OFF" position.
3. Close the fuel valve and remove the sediment bowl.
4. Put a pan under the fuel valve to receive the drained fuel and open the fuel valve to drain the fuel from the fuel tank completely.
5. Reinstall the sediment bowl.
6. Gasoline is a toxic substance. Dispose of gasoline properly. Contact your local authorities for approved disposal methods.
7. Put a pan under the carburetor and loosen the drain screw of the carburetor to drain the fuel completely.
8. Tighten the drain screw.
9. Remove the spark plug and pour approximately

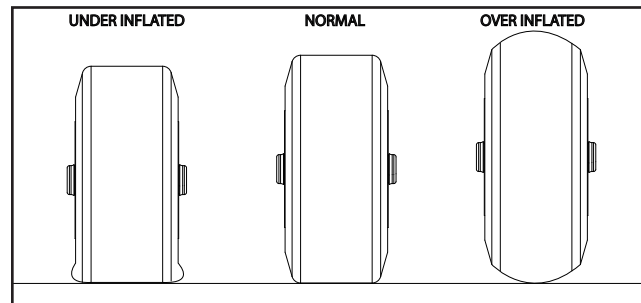
1-2 mL (.06 - .1 cu. in.) of engine oil through the spark plug hole and then screw the spark plug in after turning the engine a few times. Slowly turn the engine until you feel compression and then leave it there. This traps the air inside the cylinder and prevents rust inside of the engine.

10. Wipe the engine body with an oily cloth.

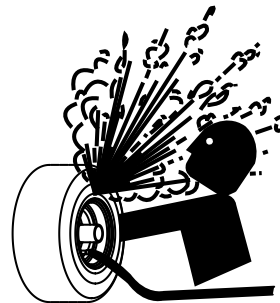
11. Change the engine oil for the next use after the period of storage. (refer to oil change page 31)

### TIRE AND WHEEL MAINTENANCE

Visually inspect the tires each time before use. Be careful not to run the tires under or over inflated. This can cause tire damage. The correct tire pressure for the front tires is 20 p.s.i. and rear wheels is 12 p.s.i.



**⚠ CAUTION: Separation of a tire and rim can cause an explosion that could cause serious injury or death.**



**⚠ CAUTION: Check the tires for low pressure, cuts, bubbles, damaged rims, or missing lug bolts and nuts.**



**CAUTION:** Always use a clip-on chuck with an extension long enough to allow you to stand on one side of the wheel while inflating the tires. Do not stand directly in front of the tire while inflating.

**CAUTION:** Never weld or heat a tire and wheel assembly. The heat can cause the air inside of the tire to expand and result in a tire explosion. Welding also can structurally weaken or deform the wheel.

When reinstalling the wheel after service, be sure to torque the nuts to 75 ft. lbs. (101 N•m). Drive 200-250 yards and then re-torque.

**BLADE MAINTENANCE**

**CAUTION:** Before removing the blades, be sure the engine has stopped and the key has been removed.

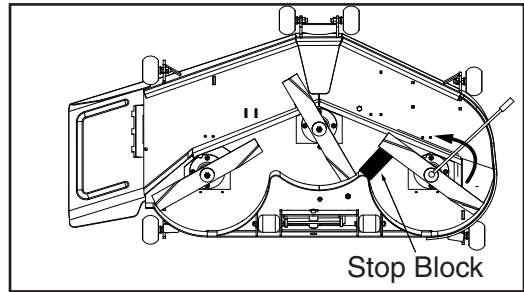
**CAUTION:** The blades may be sharp. Wear gloves or wrap them in a towel before handling them.

Inspect the blades daily for straightness, sharpness, and balance. Replace the blades if they are cracked, worn, bent or out of balance.

**NOTE:** Keep blades sharp. Mowing with dull blades will cause poor cut performance. It will also put additional strain on the engine by slowing the mower cutting speed.

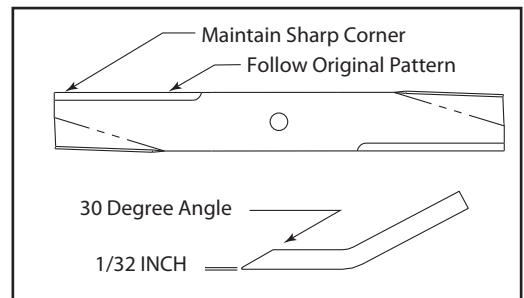
**WARNING:** Never try to straighten a blade which has been bent or try to weld a blade that is cracked. Always replace with a new blade to assure safety.

To sharpen the blades, remove the blades by inserting a block of wood and turning the blade bolt counter clockwise.



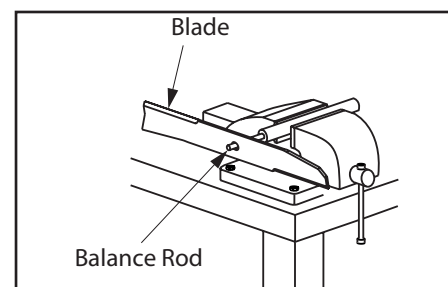
**CAUTION:** Always wear safety eye protection when sharpening the blades.

Be sure to wear a thick glove or wrap the blade in a towel to protect your hands from being cut. Insert the blades in a vise and use a mill file or grinder. File the blade along the original angle until the blade tip is at a 30° angle again.



**IMPORTANT:** When sharpening blades, be sure to grind the same amount on each side. Unbalanced blades will cause excessive vibration and could cause the spindles to wear prematurely.

Check the blade balance by inserting a horizontal rod through the center hole of the blade. The heavy side of the blade will drop down. Sharpen the heavy side of the blade until the blade is balanced.



## 44 - LUBRICATION AND MAINTENANCE

After sharpening, install the blades back onto the mower deck. Make sure the wings are facing up. Reinstall the blade bolt and lockwasher.

### CLEANING GRASS BUILDUP FROM DECK

**⚠ CAUTION: Before cleaning grass buildup, be sure the engine has stopped and the key has been removed.**

Cleaning the underside of the deck regularly will help maintain deck cutting efficiency. Clean the underside of the deck as often as possible.

To gain access to the underside of the deck, depress the deck lift foot pedal and lock it in the transport position. Move the deck cut height adjustment to the highest setting. Raise the front of the power unit and support it with jackstands.

Clean out any grass buildup from under the deck and discharge shield.

### BELTS - GENERAL INFORMATION

Inspect the belt pulley grooves and flanges for wear. A new belt, or one in good condition, should not “bottom out” in the pulley groove. Replace the belt when the belt touches the bottom of the groove otherwise the belt will slip excessively.

Always use caution when changing a belt. Never pry a belt to try to get it on a pulley. This could cut or damage the belt fibers.

Always keep oil and grease away from the belts and never use belt dressings. These materials will break down the construction of the belt and lead to premature failure.

Belts should be checked regularly, and replaced approximately at 200 hour intervals. Belts should also be replaced any time the belt(s) show evidence of cracking, missing pieces, friction burns from slipping, or other extreme damage. Small cracks or fabric polishing are normal.

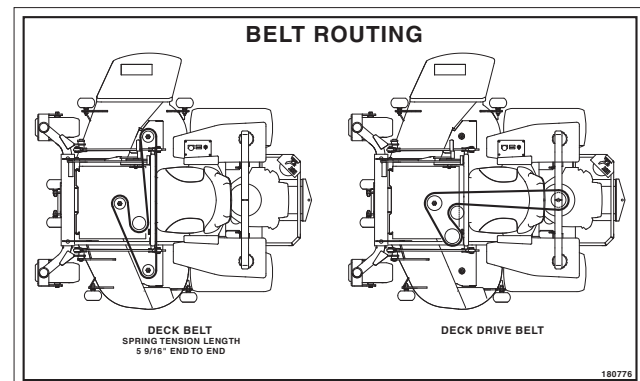
Small branches and other similar debris can get onto the top of the deck, into the pulleys, which may cause the belt(s) to break or come off the pulleys. Make sure the area to be mowed is cleared of this debris, and make sure all belt guards are in place, before mowing.

To guarantee long life of the belts, always use genuine EverRide belts. Off the shelf belts (hardware store items) do not meet EverRide specifications for strength and longevity.

### DRIVE BELT R & R

**⚠ WARNING: Most service work requires the engine to be shut OFF. To prevent injury while working on the mower, remove the ignition key and disconnect the negative (-) cable from the battery.**

1. With the deck in the transport position, raise the floor pan. To disengage the drive belt, latch the tension arm in its deck bracket. Roll the drive belt off the idler pulley.
2. Install a new drive belt, making sure it is routed according to the decal on the bottom of the floor pan. Unlock the belt tension arm so the belt is tensioned and ready for operation.



3. Lower the floor pan.

### DECK BELT R & R

1. Disconnect the drive belt according to “Drive Belt R & R instructions.”

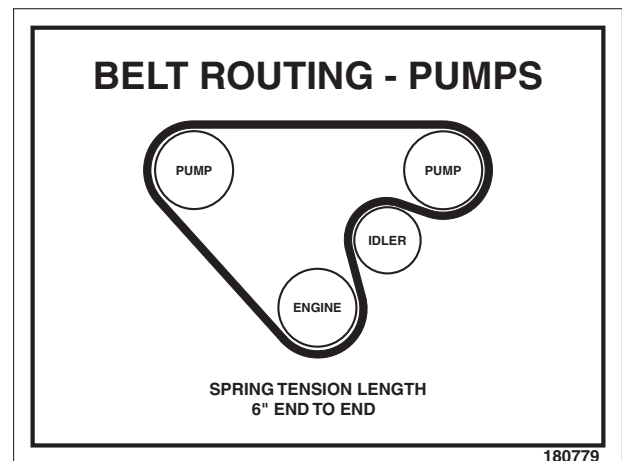
2. Remove the 3/8-16 x 2 1/2 bolt and 3/8-16 locknut from under the pulley standoff arm, remove the arm, making sure the pivot bushings do not fall out or get lost.
3. Release tension on the deck belt by backing off and releasing the belt tension rod.
4. Remove both belt shields and remove the deck belt.
5. Install a new deck belt, routed according to instructions found on the decal on the bottom of the floor plate.
6. Reconnect the deck belt tension rod and tighten the 3/8-16 nut until the tension spring measures 5 9/16" from hook end to hook end. Tighten the other nut against the rod bracket to lock this adjustment. Install both deck belt shields.
7. Reinstall the drive belt idler pulley standoff arm, insuring the rod end is inserted in its bracket near the clutch. Lightly lubricate the pivot bushings with MP Lithium grease, install and retain with the removed 3/8-16 fasteners.
8. Reinstall or reconnect the drive belt according to "Drive Belt R & R."

**PUMP BELT R & R**

1. Make sure the mower is on a firm level surface, the PTO switch is off, the engine is shut off, the motion control levers are in the park position, the negative battery cable is removed, and the lift control lever is unlocked.
2. Place the deck in the highest position.
3. Release the deck belt tension by loosening the tension spring. Remove the belt from the electric clutch. It is not necessary to remove the belt from any other pulleys.
4. Release the tension from the pump belt by shortening the belt tension spring. Pull back on the tension arm and pull the belt out from

behind the pulley. Use caution when releasing the belt tension arm as there will still be pressure on the arm.

5. Slide the belt off of the engine pulley. The belt will have to be slid above the engine pulley to allow the belt to be removed from the other pulleys.
6. Slide the belt off of the pump pulleys and it now should slide easily off of the engine pulley.
7. Install the new belt by sliding it above the engine pulley. Route the belt as shown below.
8. Pull the idler pulley on the tension arm back and slide the belt under the pulley.



9. Re-tension the spring by making sure it is extended to 6".
10. Reinstall the deck belt drive on the clutch and make sure it is routed properly on all pulleys.
11. Re-tension the deck belt idler using the deck belt tension explanation on page 45.
12. Reattach the negative battery cable.

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## 46 - BOLT TORQUE CHART

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### FASTENER TORQUES

Mounting bolts and fasteners may tend to work loose during operation due to vibration or stress. A visual check of the complete mower should be made daily. All fasteners should be checked for correct retention torque, weekly, and more often if the unit is being operated in rough areas.

All locally procured fastening hardware should be Grade 5 or equivalent. Use the following chart for general torque specifications for Grade 5 standard fasteners. Special fastener torques for the mower are shown separately below.

Bolt Size	ft. lb.	N•m
1/4-20	7-9	9-12
5/16-18	10-15	15-20
3/8-16	20-25	25-35
7/16-14	30-40	40-55
1/2-13	50-60	70-90
M8	17-20	23-27
M10	34-40	45-55
M12	55-65	75-90
M14	91-109	125-145
M16	145-166	196-225

**NOTE:** All torque specifications apply to plated or oiled fasteners. When non-plated or dry fasteners are used, increase specified torque values by 20%.

**IMPORTANT:**

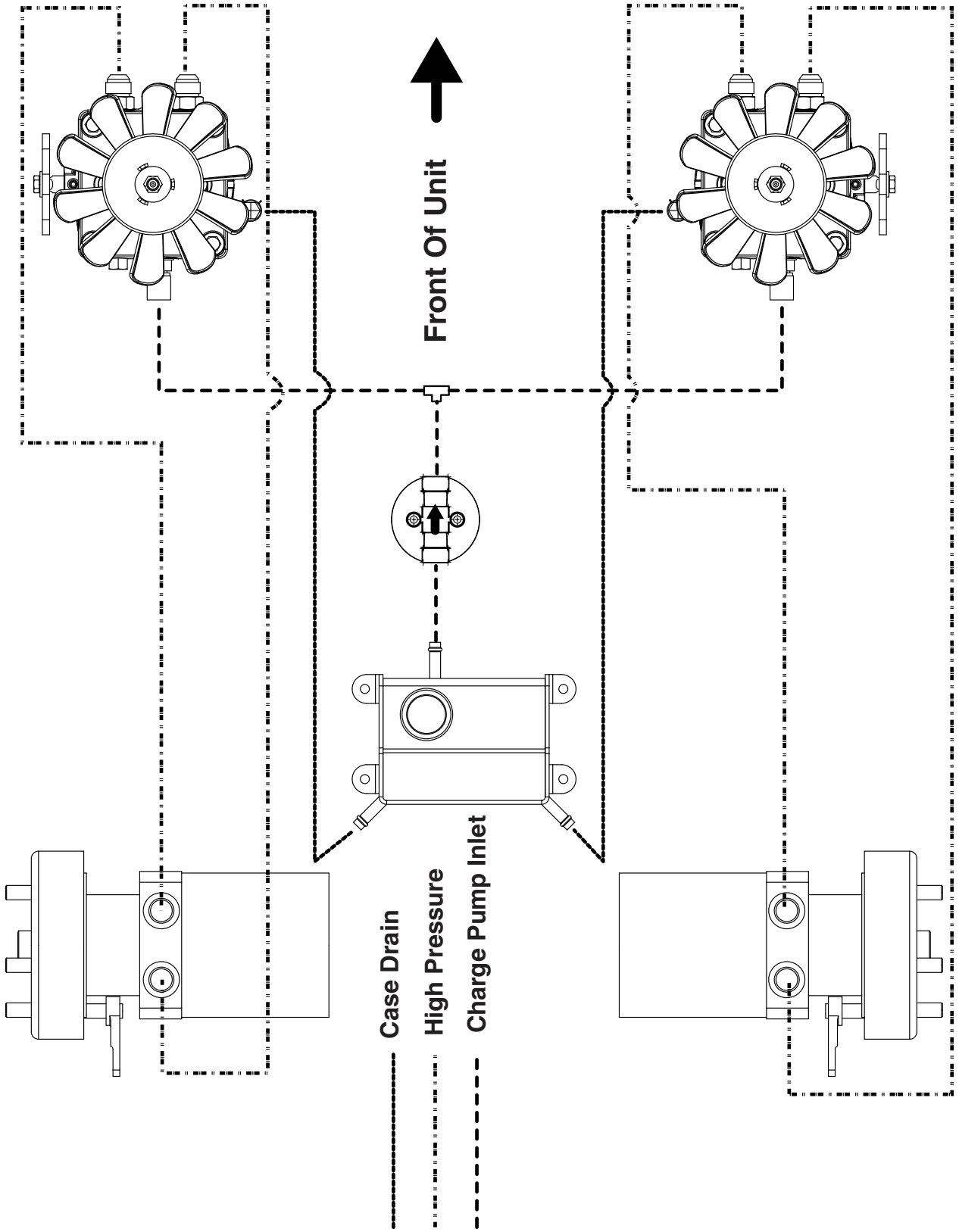
*Torque values SHOULD NOT be followed when fastening plastic parts!*

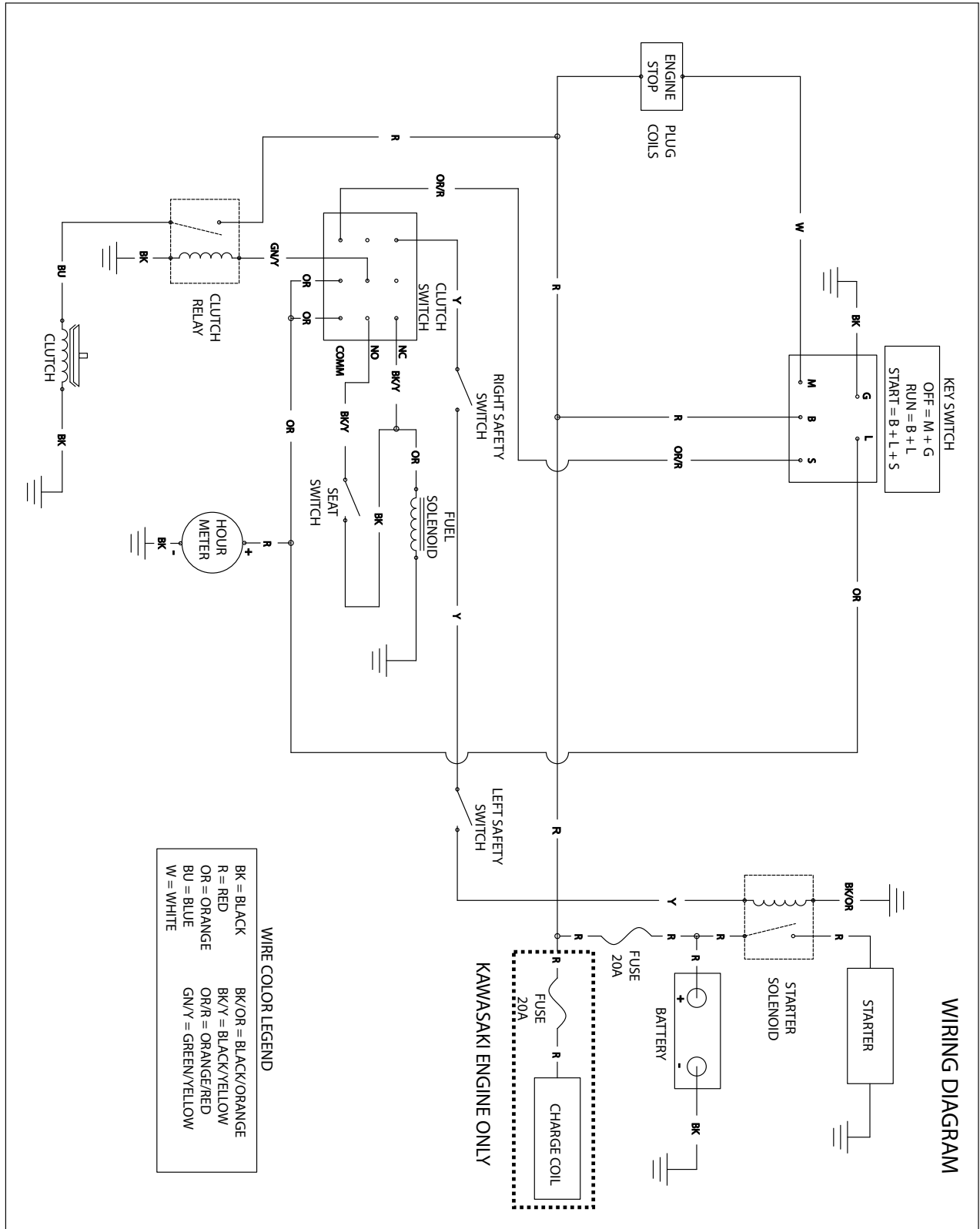
### SPECIAL FASTENER TORQUES

**IMPORTANT:**

*DO NOT use the pulley nut to hold the shaft from turning during blade tightening, as the pulley nut will be over torqued which could cause spindle spacer and bearing damage.*

Mowing Blade Retaining Bolt - <b>Grade 8</b> (9/16-12 x 1-3/4) .....	110 to 130 ft. lbs. (150-177 N•m)
Spindle Pulley Retaining Nut (3/4-16 UNF) .....	80 ft. lbs. (109 N•m)
Spindle Housing Retaining Nuts (7/16-20 UNF) .....	35-45 ft. lbs. (48-61 N•m)
Wheel Nuts (1/2-20 Lug Nuts).....	75 ft. lbs. (101 N•m)





The following troubleshooting guide is for the mower deck and its drive. This assumes the power unit engine is running to prescribed specifications. Consult the mower repair reference for all system checks.

Before attempting repair or test, observe the general condition of the power unit and mower. Make certain the power unit is operating properly and the mower is setup correctly. The following information may give you some hints in what to look for when attempting to solve a problem with the mower. If the problem cannot be easily solved, contact your EverRide dealer.

<b>SYMPTOM</b>	<b>PROBLEM</b>	<b>CORRECTION</b>
<b>Excessive Vibration.</b>	Loose spindle/blade fasteners.	Re-torque or replace as necessary.
	Blade interference with grass buildup in deck.	Clean the underside of the deck.
	Blades out of balance.	Balance blades according to instructions found on page 43.
	Blade(s) broken or worn badly.	Replace mowing blades in sets of 3.
	Engine mounting bolts are loose.	Tighten the engine mounting bolts.
	Engine/Idler/Blade pulley loose.	Tighten the pulley.
	Engine pulley damaged.	Contact dealer.
Failed spindle bearing	Contact dealer.	
<b>Uneven Cutting Height.</b>	Blades dull.	Sharpen or replace blades.
	Cutting blade (s) is/are bent.	Install new cutting blades.
	Deck is not level.	Level deck.
	Anti-scalp not set correctly.	Adjust height of anti-scalp wheel.
	Grass buildup under deck.	Clean underside of deck.
	Incorrect tire pressure.	Adjust psi to 12 p.s.i rear and 20 p.s.i. front.
	Blade spindle bent.	Contact dealer.
Ground speed too fast.	Lower ground speed.	
<b>Blades Wear Too Fast.</b>	Cutting in sandy conditions.	Increase deck mowing height.
	Cutting in rocky conditions.	Increase deck mowing height.
	Heat treat has been removed by sharpening with grinder.	Replace mowing blades in sets of 3.
<b>Not Cutting Clean.</b>	Blades dull.	Sharpen or replace blades.
	Blades installed upside down.	Install blades correctly.
	Blade RPM too low.	Use full throttle position.
	Mower deck not level.	See cutting heights (page 24).

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## 50 - MOWER TROUBLESHOOTING GUIDE

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	Mower tires mashing grass.	Tires under inflated (12 psi rear and 20 p.s.i. front). Too wet or lush to mow. Reverse direction and re-mow the area.
	Ground speed too fast. Excessive grass buildup under mower deck.	Reduce ground speed. Clean underside of deck.
<b>Streaking or Windrow Conditions in Swath.</b>	Blades dull. Blades installed upside down. Conditions too wet for mowing. Excessive grass buildup under mower deck. Ground speed too fast for conditions.	Sharpen or replace blades. Install blades correctly. Allow grass to dry before mowing. Clean underside of deck. Lower operating speeds.
<b>Blades Don't Rotate.</b>	Deck belt is worn, loose or broken. Deck belt off pulley. Clutch Failed.	Install new deck belt. Reinstall deck belt. Contact dealer.
<b>Mower Loads Power Unit.</b>	Engine RPM too low. Ground speed too fast. Excessive grass buildup under mower deck.	Use full throttle position. Reduce ground speed. Clean underside of deck.
<b>Excessive Noise.</b>	Grass and lawn debris buildup under the deck will cause excessive noise as the mower blades will contact the eventual hardened buildup. Clean the underside of the deck regularly, especially if the mowing conditions were wet or extremely lush.	



<b>SYMPTOM</b>	<b>PROBLEM</b>	<b>CORRECTION</b>
<b>Engine Idling Poorly.</b>	Carburetor adjusted incorrectly. Improper spark plug gap.	Readjust carburetor. Check and re-gap plugs.
<b>Engine Backfires.</b>	Carburetor adjusted incorrectly.	Contact dealer.
<b>Engine Runs But Won't Move.</b>	Drive belt loose or broken. Hydrostatic reservoir oil low. Pump bypass valve open. Hydrostatic oil filter plugged. Bad pump or motor.	Tighten or replace the drive belt. Refill reservoir. Put in closed position. Replace filter. Contact dealer.
<b>Power Unit Loses Power or Hydrostat System Overheats.</b>	Hydrostatic oil reserve too low. Pump or motor damaged. Hydrostatic oil reservoir blowing oil out of cap.	Refill reservoir. Contact dealer.  Overfill or water contaminated.
<b>Loss of Power or System Will Not Operate in Either Direction.</b>	Restrictions in air cleaner. Poor compression. Steering linkage needs adjustment. Hydraulic bypass valve open. Pump belt broken or worn. Pump belt off of pulley.	Service air cleaner. Contact dealer. Contact dealer. Close the bypass valve. Replace belt. Reinstall belt on pulley.
<b>Engine Overheating.</b>	Air intake screen clogged. Cleaning fins clogged.	Service air intake screen. Clean fins.
<b>Engine Stalling While Blades are Engaged.</b>	Operator not in seat. Faulty safety system. Spindle bearing failure. Blades locked by foreign matter.	Sit on seat. Contact dealer. Contact dealer. Clean underside of deck.
<b>Low Engine Oil Pressure.</b>	Low oil level. Oil diluted or too light.	Add oil. Change oil and locate source of contamination.
<b>High Oil Consumption.</b>	Numerous possible causes.	Contact dealer.
<b>Engine Will Not Turn Over.</b>	Dead battery. Bad ground connection. Poor terminal connection at battery. Poor wiring harness connections. Bad park switch. Bad PTO switch. Motion control arms not in park position. PTO switch engaged. Operator not in seat. Blown Fuse.	Charge unit or jump start. Correct the connection. Correct the connection. Correct the connection. Contact dealer. Contact dealer.  Put arms in park. Disengage PTO switch. Sit in seat. Replace fuse.

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## 52 - MOWER UNIT TROUBLESHOOTING GUIDE

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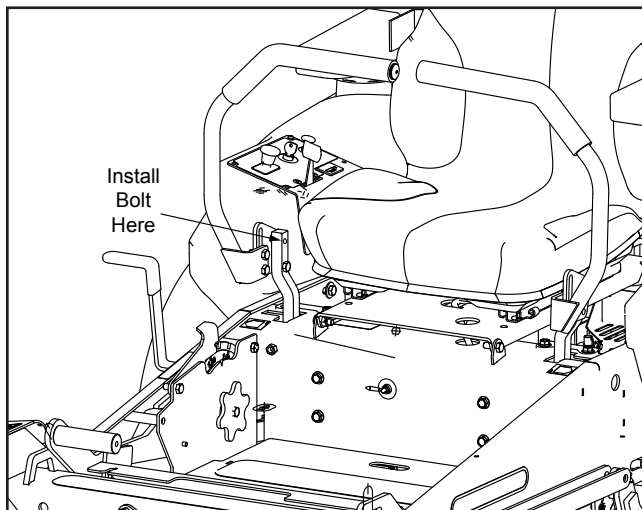
<b>SYMPTOM</b>	<b>PROBLEM</b>	<b>CORRECTION</b>
<b>Engine Turns Over But Doesn't Start - There Is a Spark At Plug.</b>	No fuel or line plugged. Bad fuel solenoid. Fuel valve turned off. Dirt in fuel filter. Dirt, water, or stale fuel. Incorrect fuel in fuel system.  Choke is not on.	Fill tank or replace line. Contact dealer. Turn fuel valve on. Replace fuel filter. Contact dealer. Drain tank and replace with proper fuel. Move choke lever to on.
<b>Engine Turns Over But Doesn't Start - No Spark at Plug.</b>	PTO switch is on. Control levers are not in park. No operator in seat. Bad seat switch. Bad park switch.	Turn PTO switch off. Put levers in park. Sit on seat. Contact dealer. Contact dealer.
<b>Power Unit Jerky When Starting or Operates in One Direction Only.</b>	Motion control linkage needs adjustment. Hydrostatic pump failure. Wheel motor failure. Bypass valve open.	Contact dealer.  Contact dealer. Contact dealer. Close bypass valve.
<b>Power Unit Creeps When Motion Control Arms are in Neutral.</b>	Motion control linkage needs adjustment.	Contact dealer.
<b>Power Unit Circles or Veers.</b>	Motion control linkage needs adjustment. Hydrostatic pump failure. Wheel motor failure. Tires improperly inflated.	Contact dealer.  Contact dealer. Contact dealer. Adjust front tire pressure 20 psi and rear tires to 12 psi.
<b>Abnormal Vibration.</b>	Engine mounting bolts loose. Loose engine pulley. Engine pulley damaged.	Torque engine bolts. Tighten pulley. Contact dealer.

**SETUP INSTRUCTIONS**

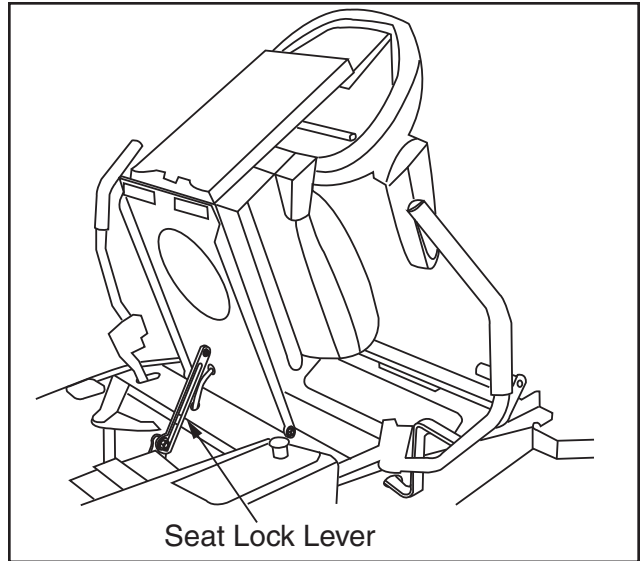
EverRide mowers are shipped partially assembled. After uncrating the power unit and mower deck, initial setup is required.

**IMPORTANT:** During the unpacking of the crate all goods should be matched against the packing list and all shortages or damages should be noted and reported to the carrier immediately. The carrier will provide directions for filing a claim to receive compensation for damage.

1. Remove all packaging.
2. The motion control arms have been loosened and moved forward during packaging. Remove the loose 3/8-16 x 1.75 bolts from the handles and reinstall them in the location shown.



3. The seat lock lever has also been disconnected to allow the seat to go completely forward. Remove the loose 3/8-16 nut and 3/8-16 flat washer from the bottom of the seat lock lever.
4. Carefully rotate the seat back far enough to facilitate installation of the seat lock lever in the location shown below.



5. Torque all hardware to 25 ft. lbs.

**BATTERY INSTALLATION**

The battery supplied with your EverRide Warrior mower is sealed, it will not be necessary to activate it. If the engine does not turn over by turning the ignition switch, it may be necessary to charge the battery.

**HYDRAULIC OIL SERVICE**

The power unit is shipped with hydraulic oil in the system. If the tracking is erratic, make sure the dealer purges the system according to the repair manual instructions. If the oil level is low, below the edge of the baffle in the oil reservoir, fill with SAE 20W-50 motor oil.

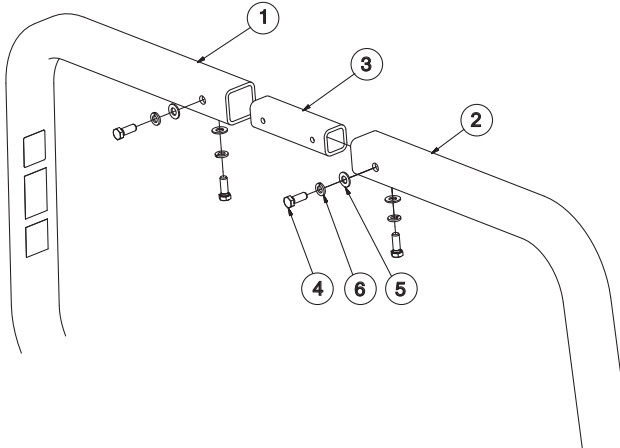
**ASSEMBLING THE FIXED ROPS**

Pull the tractor onto a level surface, put the tractor motion control arms in the park position. Turn the engine off and remove the key.

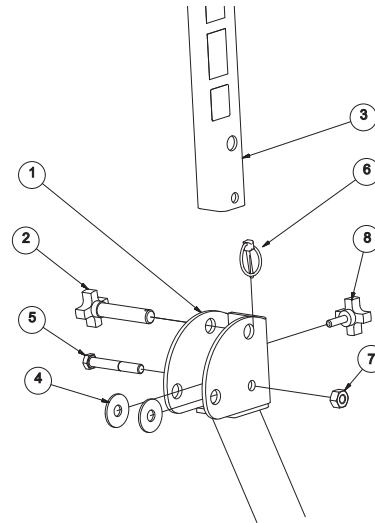
Assemble the ROPS by sliding the splice tube (3) into both the left hand ROPS assembly (1) and the RH ROPS assembly (2). Insert the four 3/8-16 hex bolts through four 3/8 lock washers, through

## 54 - MOWER ASSEMBLY INSTRUCTIONS

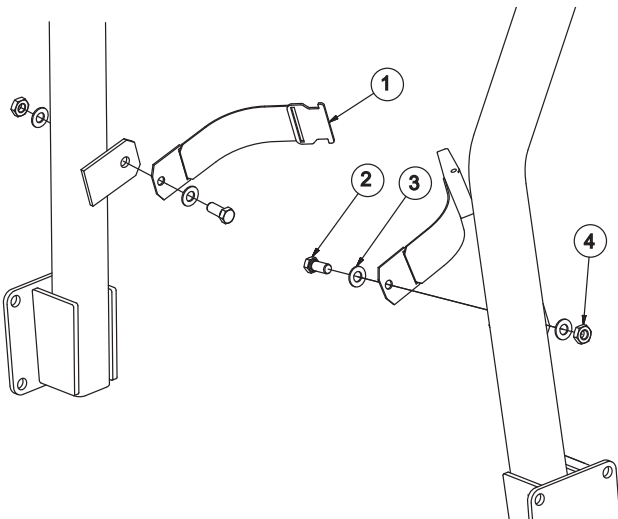
four 3/8 flatwashers, through the ROPS assembly and into the splice tube. **DO NOT TORQUE** until installation is complete.



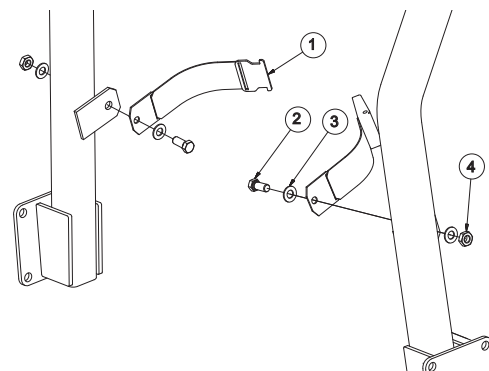
the formed tube ROPS and through the RH folding base weldment again. Secure with a lynch pin (6). Insert the 3/8-16 x 1.5 knob (8) through the RH folding base weldment and into the formed tube ROPS. Do not torque the hardware until the ROPS is attached to the tractor.



Assemble the seat belt to the ROPS by inserting the 7/16-20 x 1 hex bolt through a 7/16 flat washer, through the seat belt and through the ROPS weldment. Secure with a 7/16 flat washer and a 7/16-20 lock nut.



Assemble the seat belt to the ROPS by inserting the 7/16-20 x 1 hex bolt through a 7/16 flat washer, through the seat belt and through the ROPS weldment. Secure with a 7/16 flat washer and a 7/16-20 lock nut.



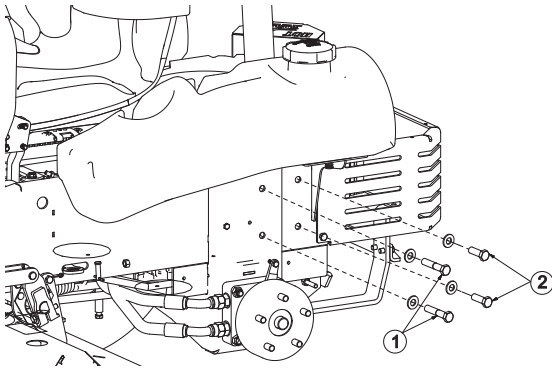
### ASSEMBLING THE FOLDING ROPS

Slide the ROPS formed tube (3) into the RH folding base weldment (1). Insert the 1/2-13 x 3.5 bolt (5) through the RH folding base weldment (1), through the ROPS formed tube and through the RH folding base weldment again. Secure it in place with a 1/2-13 hex nut (7). Insert the pin assembly (2) through the RH folding base weldment, through

## ATTACHING THE ROPS TO THE MOWER

Using a hoist or a jack, raise the rear of the tractor off of the ground. Insert floor jacks under the axle to support the weight of the tractor. Remove the five lug nuts securing the wheel to the wheel hub.

Slide the ROPS assembly along the inside of the mower frame. Insert the 1/2-13 x 2.5 bolts (1) through the LH bolt holes on the tractor frame and through the ROPS. Secure in place with 1/2 lock washers and 1/2-13 hex nuts. Insert the 1/2-13 x 1.5 bolts through the RH bolt holes on the tractor frame and through the ROPS. Secure with 1/2 lock washers and 1/2-13 hex nuts.



Torque all hardware using the torque values in the torque chart on page 46.



**EVERRIDE WARRIOR MOWER**
**Engine**

Manufacturer	Kawasaki™ Model FH721V Kohler™ Model CV740
Type	V-Twin Air Cooled 4-Stroke OHV
Displacement	41.2 Cubic Inch (675 mL) Kawasaki 44.0 Cubic inch (725 mL) Kohler
Horsepower	25 H.P. Kawasaki 27 H.P. Kohler
Maximum Torque	41.3 ft. lbs. Kawasaki 42.7 ft. lbs. Kohler
Maximum Recommended Speed	3600 RPM
Bore	2.96 in. (75.2 mm) Kawasaki 3.3 in. (83 mm) Kohler
Stroke	2.99 in. (76 mm) Kawasaki 2.6 in. (67 mm)
Cylinders	Two - V-Twin
Direction of Rotation	Clockwise Facing the PTO Shaft
Crankcase Capacity	1.9 Quart (1.8 Liters) Kawasaki 2.1 Quart (2.0 Liters) Kohler
Fuel Type	Ethanol Unleaded Gasoline (Min. 87 Octane)
Fuel Tank Capacity	(Both Tanks) 11.83 Gallons (44.8 liters)

**Electrical System**

Battery	12 Volt DC 245 CCA
Charging System	Charge Coil
Charging Output	15 Amp
System Polarity	Negative Ground
Starter	12 Volt Electric Ring Gear Type, Bendix Drive
Fuse Protection	20 Amp Automotive Buss Type (Yellow)
Power Take Off (PTO)	Ogura™ GT-3 Clutch Brake
PTO Blade Brake	Dry Single Disk

**Weights/Measurements**

Shipping Weight w/o Mower Deck **	885 pounds (401 kg)
Fixed ROPS Weight (Standard) **	68 pounds (31 kg)
Folding ROPS Weight (Optional) **	74 pounds (34 kg)
Overall Width w/o Mower Deck	54 inches (1372 mm)
Overall Length	80.5 inches (2045 mm)
Overall Height w/o ROPS	49 inches (1245 mm)
Overall Height w/ROPS	73.5 inches (1867 mm)
Wheelbase	52 inches (1321 mm)
Minimum Ground Clearance	5.5 inches (140 mm)

\*\* Add unit weight, ROPS weight and applicable deck weight for total Warrior Mower weight.

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## 58 - SPECIFICATIONS

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### Hydrostatic Drive System

Steering	Two Motion Control Arms
Transmission	Two Axial Piston Pumps & Two Fixed Wheel Motors
Travel Speed	
Forward	Zero to 12 mph (19.30 km/h)
Reverse	Zero to 4 mph (0 - 6.44 km/h)
Tires	
Rear Drive Tires,	24 x 12-12 - 4 Ply Turf Tread
Front Caster,	13 x 6.50-6 - 4 Ply Ribbed Tread
Deck Anti Scalp Rollers,	5 inch Phenolic Material
Minimum Turning Radius	True Zero-Turn
Hydraulic System Capacity	1 Gallon (3.8 Liters)
Parking Brake	Control Arm Actuated Drum/Shoe Brake System Integrated into Wheel Motors

### Mower Deck

	54 Inch	60 Inch
Style	High Volume Tunnel Deck	
Dimensions		
Weight **	272 lbs (123 kg)	297 lbs (125 kg)
Width	55.5 inches (1410 mm)	61.1 inches (1552 mm)
Depth	5.5 to 7.75 inches (14-19.7 mm)	
Thickness	Full 7 Gauge Welded Construction	
Deck Lift	Foot Operated Spring Assist	
HOC Adjustment	Fingertip Control Dial Gauge	
Cutting Width	54 inches (1372 mm)	60 inches (1524 mm)
Cutting Height	(1/4 inch Increments) 1 to 6 inches (25.4-152.4 mm)	
Mowing Blades		
Tip Speed @ 3600 RPM	18,750 fpm (342.937 km/h)	
Length	19 inches (482.6 mm)	21 inches (533.4 mm)
Thickness	1/4 inch	
Number of Blades	Three	

\*\* Add unit weight, ROPS weight and applicable deck weight for total Warrior Mower weight.



**PLEASE USE THIS SECTION FOR THE FOLLOWING INFORMATION**

When needing replacement parts, contact your EverRide dealer. They will need the model and serial numbers of the mower to give you the most up-to-date parts for your equipment. Refer the dealer to the parts illustration title and the item number of the parts required.

Use only genuine EverRide service parts on EverRide equipment.

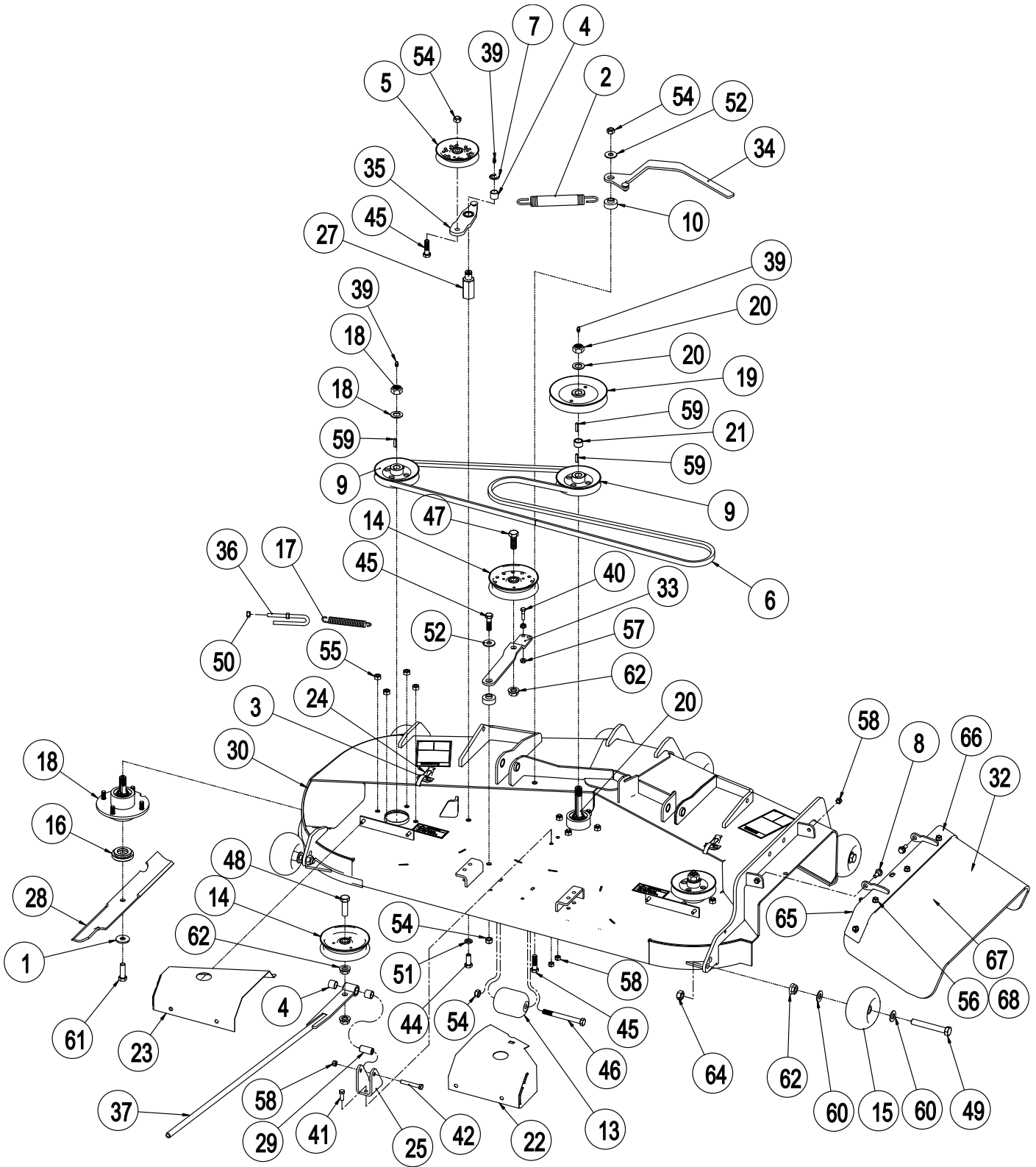
Refer to the parts illustration to assist with assembly and disassembly of the mower.

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EverRide reserves the right to change, modify, or eliminate from time to time, for technical or other reasons, certain or all data, specifications, or equipment of the product, or the products themselves, without any liability or obligation.

60 - MOWER DECK GROUP



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**MOWER DECK GROUP - 61**

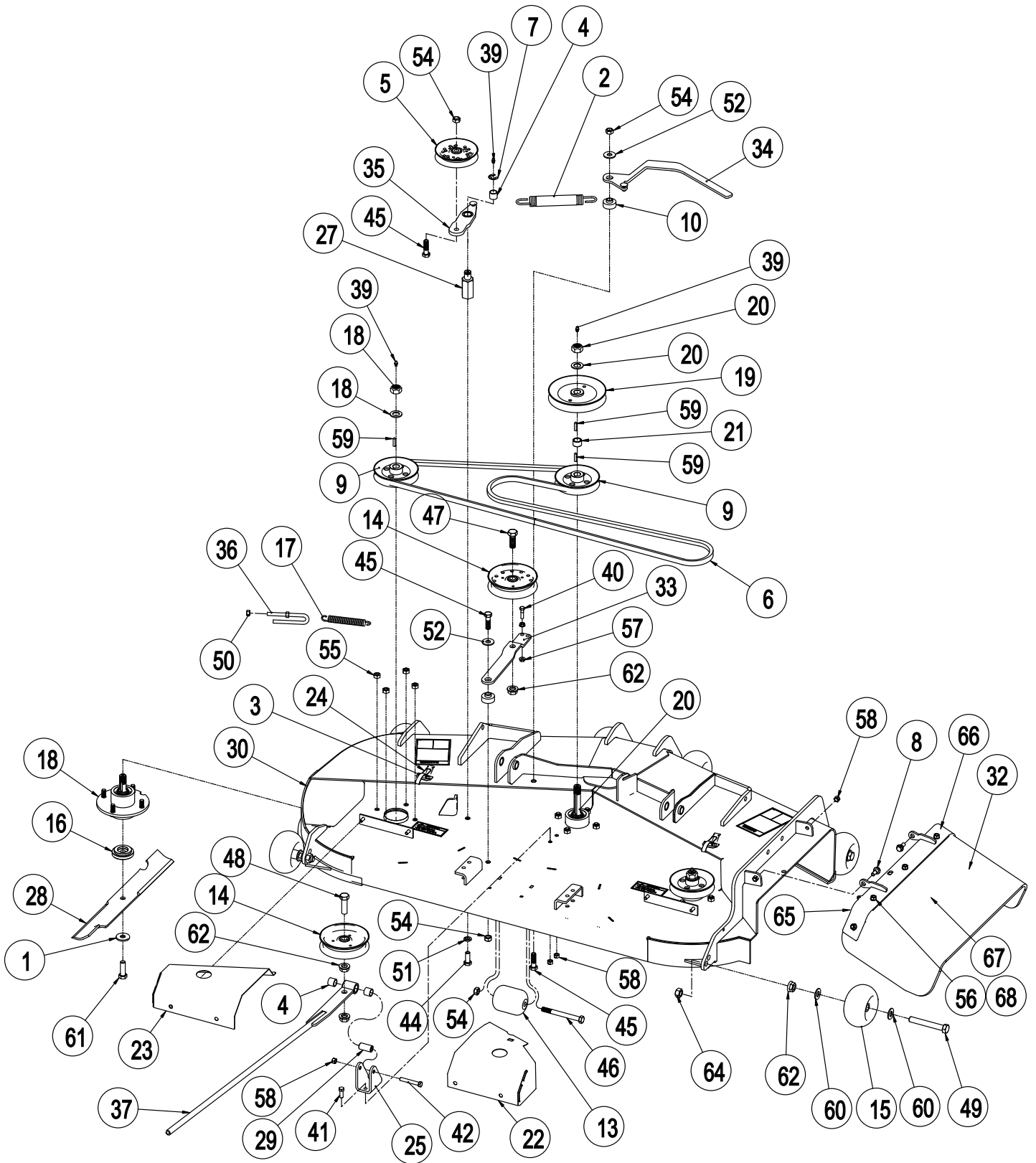

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ITEM	PART NO.	QTY	DESCRIPTION
1	103906	3	WASHER, M14 X M40 X M4.5 FLAT
2	104657	1	SPRING, EXT 1.18 X .177 X 7.50
3	104834	4	RIVET, POP .188 X .375 STEEL
4	105546	3	BRG, SLV .753 X .878 X .750
5	112614	1	PULLEY, V-BELT 5.00 X .510
6	112616	1	BELT, B120 - 60" DECK
	181036	1	BELT, B112 - 54" DECK
7	130886	1	E-RING, .750 X .050
8	135139	2	BOLT, SHLDR .313X1.00 SOC
9	144579	3	PULLEY, V-BELT 5.38 X .750
10	160100	2	SPACER, Ø.516 X Ø1.50 X .853
11	160169	2	DECAL, WARNING - SHIELD
12	161367	2	PIN, CVS .750 X 2.75 X 2.52
13	161573	1	ROLLER, Ø3.00 X 3.88
14	162146	2	PULLEY, FLAT 5.00 X .635
15	162701	6	WHEEL, GAUGE - Ø5.00 X 2.76
16	162779	3	SPACER, BLADE
17	162801	1	SPRING, EXT .750 X .125 X 4.50
18	191565	2	ASSY, SPINDLE
19	180311	1	PULLEY, V-BELT 6.75 X .750 W/KEY - 60" DECK
	180780	1	PULLEY, V-BELT 5.75 X .750 W/KEY - 54" DECK
20	180440	1	ASSY, CENTER SPINDLE
21	180443	1	SPACER, Ø.760 X Ø1.00 X .635
22	180494	1	SHIELD, RH 54-60" BELT
23	180496	1	SHIELD DECK LH - 60" DECK
	180778	1	SHIELD DECK LH - 54" DECK
24	180501	2	LATCH, OVERCENTER
25	181010	1	PLATE, PIVOT ANCHOR BENT
26	181017	2	U-BOLT SPECIAL
27	181025	1	STANDOFF, GREASEABLE PULLEY ARM W/ZERK S/O
28	181026	3	BLADE, 20.940 LO-LIFT - 60" DECK
	181042	3	BLADE, 19.000 LO-LIFT - 54" DECK
29	181062	1	SPANNER, EVERDRIVE
30	181263	1	WLDT, DECK - WARRIOR 60" W/DECALS
	181262	1	WLDT, DECK - WARRIOR 54" W/DECALS
31	181139	1	BELT, B112 - KEVLAR
32	181173	1	ASSY, DISCHARGE - RUBBER *
33	181188	1	ARM, BELT TENSION - 60" DECK
	181043	1	ARM, BELT TENSION - 54" DECK
34	181190	1	WLDT, TENSION ARM
35	181192	1	WLDT, BELT TENSION ARM
36	181194	1	U BOLT, SPECIAL 3/8-16 X 4.50 - 60" DECK
	181239	1	U BOLT, SPECIAL 3/8-16 X 2.63 - 54" DECK
37	181256	1	WLDT, PULLEY PIVOT

\* Assembly includes items 65, 66, 67, 68 and five of item 56.

Continued on pages 62-63

62 - MOWER DECK GROUP - Continued



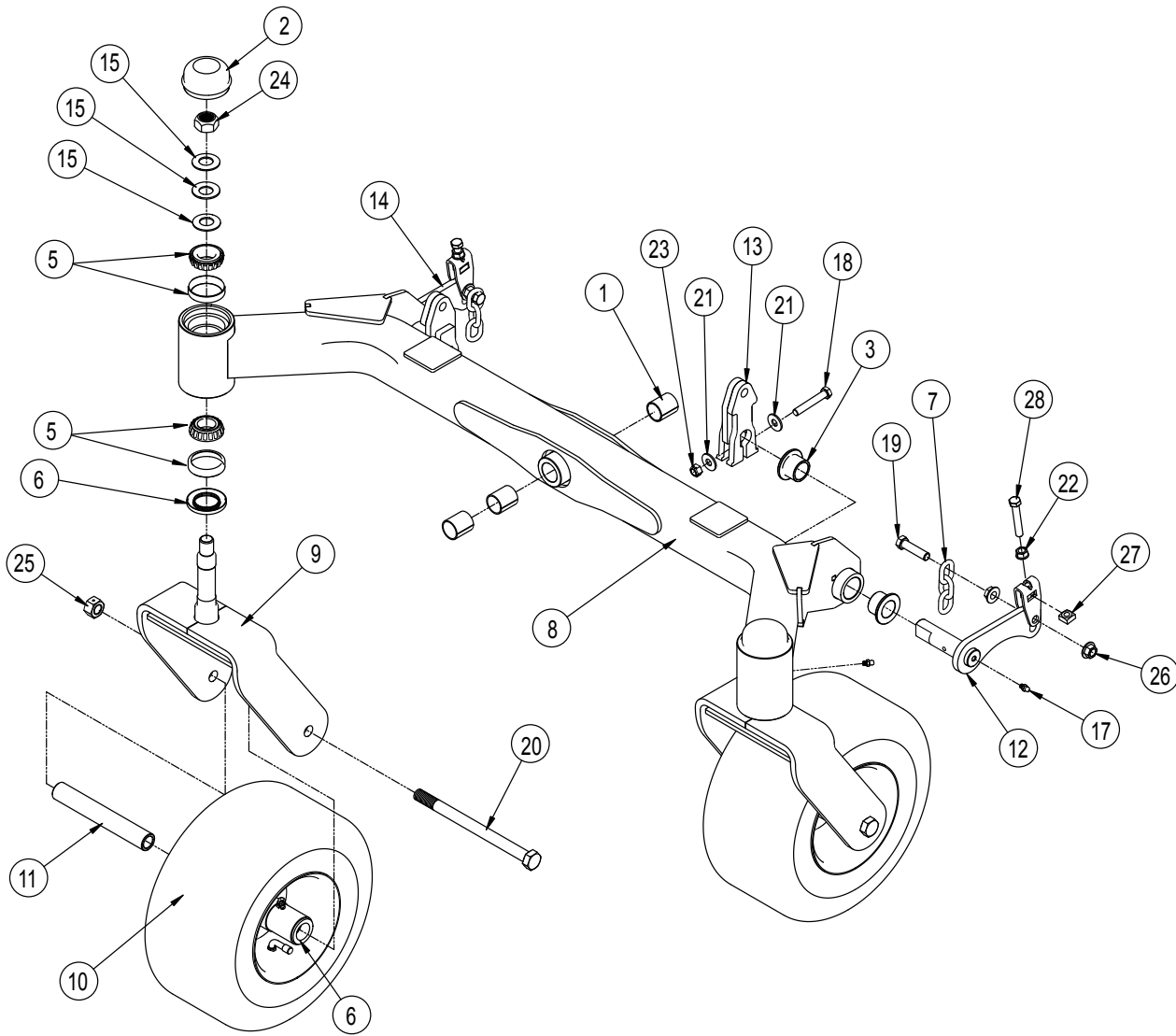
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**MOWER DECK GROUP - Continued - 63**

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ITEM	PART NO.	QTY	DESCRIPTION
38	181258	2	DECAL, DANGER - DECK
39	959995	4	FTG, 1/4-28 STRGT GREASE ZERK
40	960024	1	BOLT, 5/16-18 X 1.25 HEX 5
41	960046	2	BOLT, 3/8-16 X 1.00 HEX 5
42	960052	1	BOLT, 3/8-16 X 2.50 HEX 5
43	960082	2	BOLT 7/16-14 X 1 3/4 GR5
44	960113	1	BOLT, 1/2-13 X 1.25 HEX 5
45	960115	3	BOLT, 1/2-13 X 1.75 HEX 5
46	960128	1	BOLT, 1/2-13 X 5.00 HEX 5
47	960156	1	BOLT, 5/8-11 X 1.75 HEX 5
48	960157	1	BOLT, 5/8-11 X 2.00 HEX 5
49	960167	6	BOLT, 5/8-11 X 4.25 HEX 5
50	960502	2	NUT, 3/8-16 STD HEX GR5
51	960604	1	WASHER, .500 MED SPRG LOCK
52	960704	2	WASHER, .500 REG FLAT
53	962018	2	PIN, COT .125 X 1.25 EXTP
54	964000	4	LOCKNUT, 1/2-13 CROWN
55	964005	12	NUT, 7/16-20 HEX GR5
56	964016	13	LOCKNUT, 3/8-16 WHIZ
57	964019	2	LOCKNUT, 5/16-18 WHIZ
58	964022	5	LOCKNUT, 3/8-16 CROWN
59	966045	4	KEY, .250 X .250 X 1.00 SQ
60	967087	12	WASHER, .625 X 1.31 X .098 FLAT
61	967187	3	BOLT, 9/16-12 X 1.75 HEX 8
62	967324	9	LOCKNUT, 5/8-11 WHIZ
63	967342	4	LOCKNUT, 7/16-14 WHIZ
64	967392	6	LOCKNUT, 5/8-11 CROWN
65	181115	1	PLATE, DISCHARGE SHIELD BOTTOM SUPPORT
66	181120	1	WLDT, DISCHARGE SHIELD TOP BRACKET
67	181129	1	SHIELD, RUBBER DISHCARGE
68	963020	5	BOLT, 3/8-16 X 1 CARRIAGE

# 64 - FRONT WHEEL ASSEMBLY



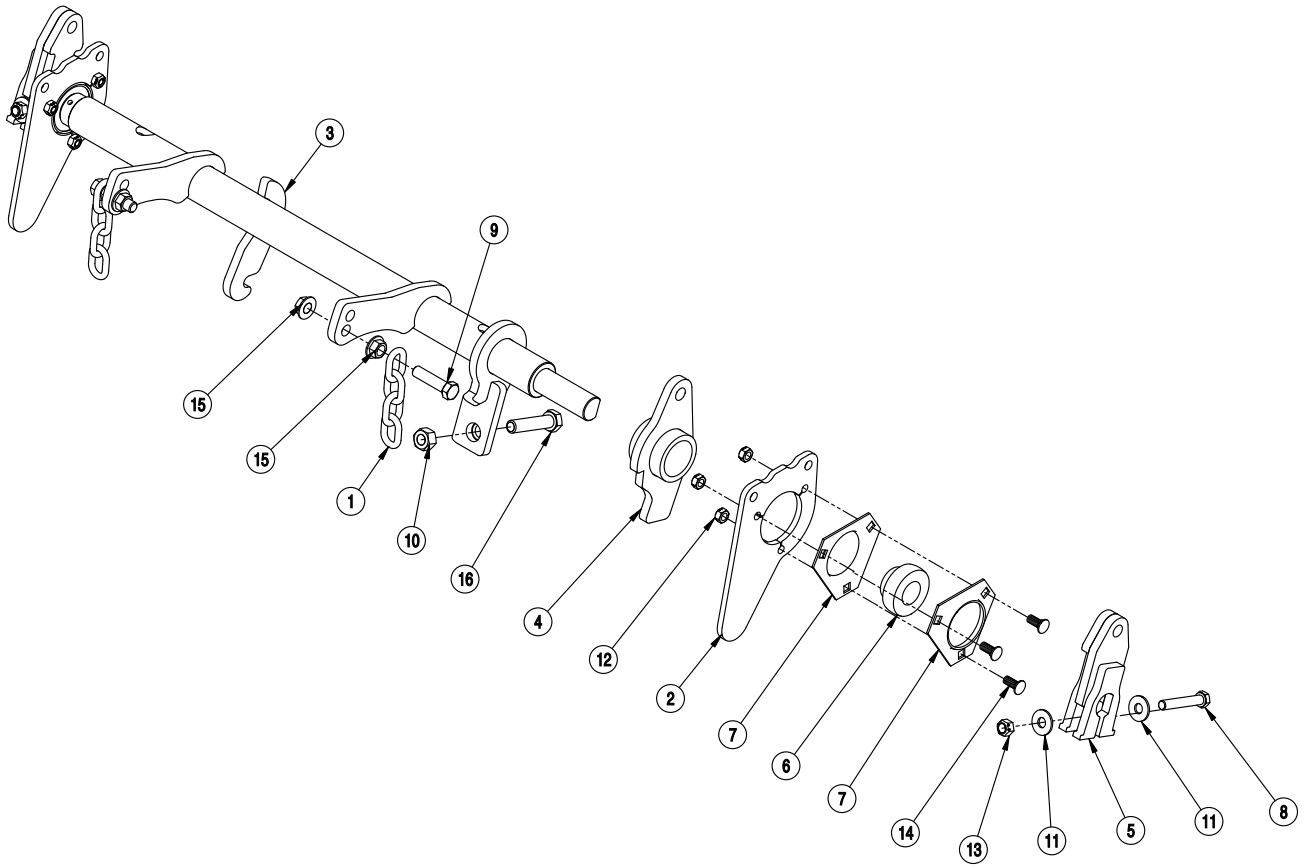
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**FRONT WHEEL ASSEMBLY - 65**

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ITEM	PART NO	QTY	DESCRIPTION
1	105591	3	BEARING, SLV 1.00 X 1.13 X 1.25
2	105596	2	CAP
3	130885	4	BRG, FLG 1.00X1.25X.944
4	145552	2	SEAL, 1.00 ROLLER BEARING
5	145553	4	ASSY, 1.00 ROLLER BEARING
6	182189	2	KIT, FRONT WHEEL BEARING
7	150109	2	CHAIN - 3 LINKS
8	180055	1	FRONT AXLE WLDT
9	180097	2	WLDT, Z FRONT WHEEL FORK
10	180256	2	ASSY, TIRE & RIM - 13/6.50 X 6
11	180257	2	TUBE, FRONT TIRE AXLE
12	180977	1	WLDT, LH FRONT PIVOT W/ZERK S/O
13	180983	2	FRONT PIVOT CLAMP WLDT
14	180986	1	WLDT, RH FRONT PIVOT W/ZERK S/O
15	180992	6	WASHER, .750 X 1.50 X .072 BLVL
16	181174	2	LINK, U-BRACKET
17	959995	4	FTG, 1/4-28 STRGT GREASE ZERK
18	960051	2	BOLT, 3/8-16 X 2.25 HEX 5
19	960082	2	BOLT, 7/16-14 X 1 3/4 GR5
20	960176	2	BOLT, 5/8-11 X 8.50 HEX 5
21	960702	4	WASHER, .375 REG FLAT
22	964016	2	LOCKNUT, 3/8-16 WHIZ
23	964022	2	LOCKNUT, 3/8-16 CROWN
24	964024	2	LOCKNUT, 3/4-16 CROWN
25	964032	2	LOCKNUT, 5/8-11 CENTER
26	967342	4	LOCKNUT, 7/16-14 WHIZ
27	967395	2	NUT, 3/8-16 SQUARE
28	967396	2	BOLT, 3/8-16 X 2.25 HEX 5

# 66 - REAR LIFT ROD ASSEMBLY





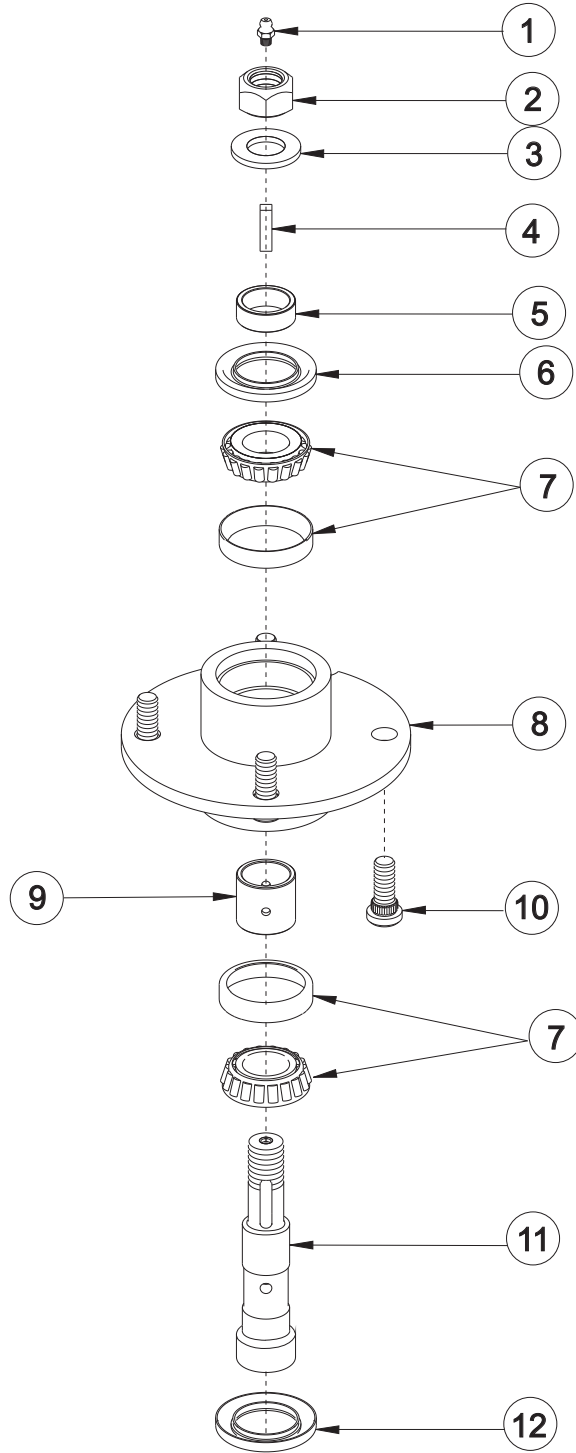
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**REAR LIFT ROD ASSEMBLY - 67**

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ITEM	PART NO	QTY	DESCRIPTION
1	150110	2	CHAIN, 4 LINKS 1/4"
2	180841	2	BALL BEARING PLATE
3	180860	1	CENTER LIFT WLDT
4	180868	1	WLDT, HOC ROTATION ADJUSTMENT
5	180983	2	FRONT PIVOT CLAMP WLDT
6	251060	2	BEARING
7	251061	4	FLANGE, BEARING 52MM-3T
8	960051	2	BOLT, 3/8-16 X 2.25 HEX 5
9	960082	2	BOLT 7/16-14 X 1 3/4 GR5
10	960504	1	NUT, 1/2-13 STD HEX GR5
11	960702	4	WASHER, .375 REG FLAT
12	964021	6	LOCKNUT, 5/16-18 CROWN
13	964022	2	LOCKNUT, 3/8-16 CROWN
14	967152	6	BOLT, 5/16-18 X 3/4 CARR GR5 PLT
15	967342	4	LOCKNUT, 7/16-14 WHIZ
16	967341	1	BOLT, 1/2-13 X 2.25 SPEC 5

# 68 - SPINDLE ASSEMBLY



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**SPINDLE ASSEMBLY - 69**

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ITEM	PART NO	QTY	DESCRIPTION
*	191565	2	SPINDLE ASSY.
*	180440	1	SPINDLE ASSY., CENTER
*	180925	1	SPINDLE BEARING KIT S/O*
1	959995	1	FITTING, GREASE 1/4-28 STRAIGHT
2	964024	1	LOCKNUT, 3/4-16
3	964500	1	FLATWASHER, 3/4 SAE
4	966045	1	KEY, 1/4 SQUARE X 1 **
5	145557	1	SPACER, SEAL
6	145551	1	SEAL, UPPER
7	145555	2	BEARING ASSY, CUP & CONE
8	160001	1	HOUSING, SPINDLE
9	160116	1	PRE-LOAD SPACER, .606
10	145561	4	STUD, SPECIAL 7/16-20
11	163393	1	SHAFT, SPINDLE
11	180441	1	SHAFT, SPINDLE CENTER SPINDLE
12	145552	1	SEAL, LOWER

\* Includes items 6, 7, 9 & 12

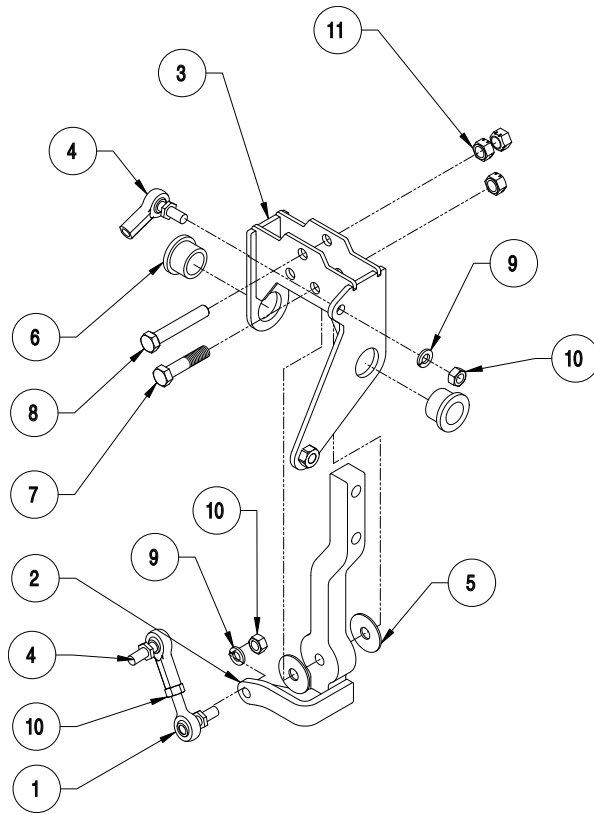
\*\* Spindle Assy. does not include items 1, 4, & 10

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# 70 - HANDLE ASSEMBLY/AIR FILTER ASSEMBLY

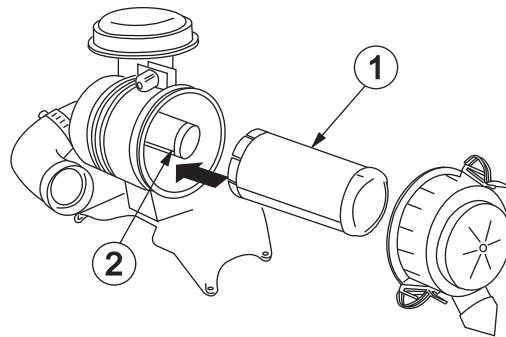
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## HANDLE ASSEMBLY



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## AIR FILTER ASSEMBLY



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**HANDLE ASSEMBLY/AIR FILTER ASSEMBLY - 71**

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**HANDLE ASSEMBLY**

ITEM	PART NO	QTY	DESCRIPTION
1	180249	1	BALL JOINT RH 5/16 MALE W/ STD
2	180544	1	BAR WLDT RH STEERING
	180532	1	BAR WLDT LH STEERING
3	180545	1	HANDLE CONTROL WLDT, RH
	180536	1	HANDLE CONTROL WLDT, LH
4	180606	2	BALL JOINT, RH 5/16 FMAL W/STD
5	180961	2	NYLON WASHER, 1.27OD X .400 ID
6	252126	2	BUSHING, .750 X 1.00 X .750
7	960049	1	BOLT, 3/8-16 X 1.75 HEX 5
8	960051	1	BOLT, 3/8-16 X 2.25 HEX 5
9	960601	2	WASHER, .313 MED SPRG LOCK
10	964003	3	NUT, 5/16-24 STD HEX GR5
11	964022	3	LOCKNUT, 3/8-16 CROWN

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**AIR FILTER ASSEMBLY**

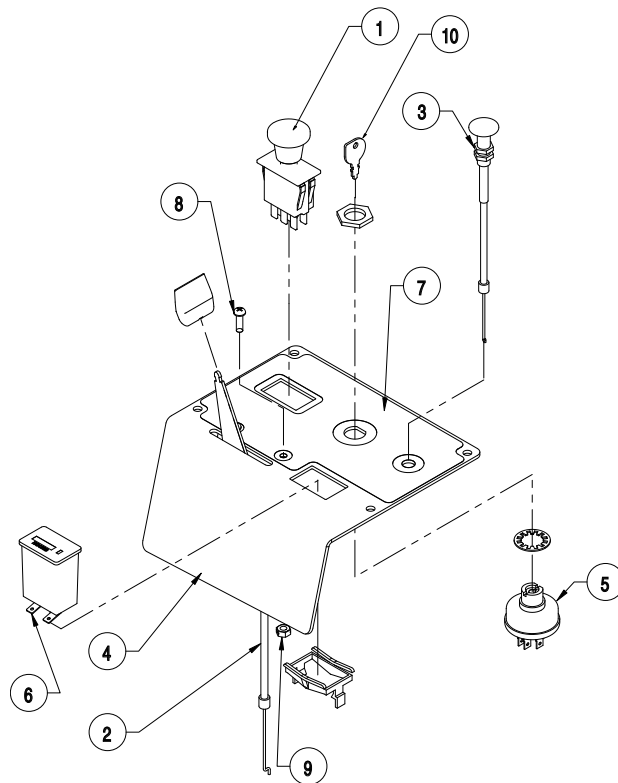
ITEM	PART NO	QTY	DESCRIPTION
1	181071	1	FILTER, PRIMARY AIR
2	181072	1	FILTER, SECONDARY AIR

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# 72 - CONTROL PANEL ASSEMBLY/ROPS

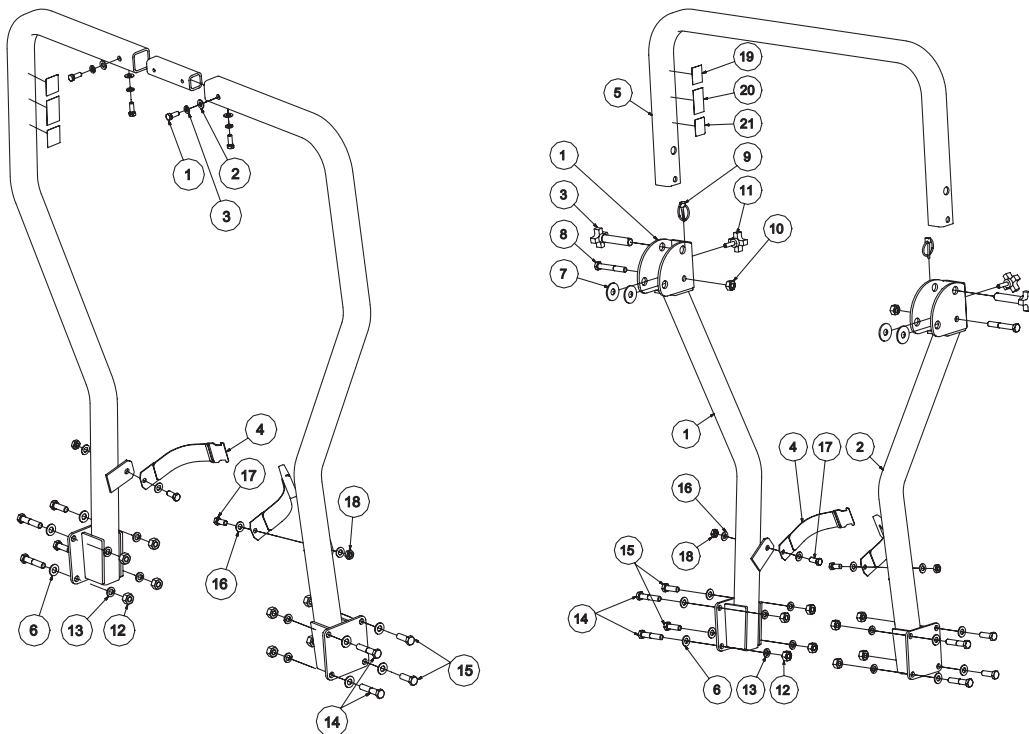
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## CONTROL PANEL ASSEMBLY



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## ROPS



**CONTROL PANEL ASSEMBLY**

ITEM	PART NO	QTY	DESCRIPTION
1	136574	1	SWITCH, PTO ENGAGEMENT
2	180272	1	THROTTLE CABLE
3	180273	1	CHOKE CABLE - 25 H.P. KAWASAKI
	181143	1	CHOKE CABLE - 27 H.P. KOHLER
4	181049	1	CONTROL PANEL S/O
5	180620	1	KEY SWITCH - 3 POSITION W/KEY
6	180799	1	HOUR METER; QUARTZ
7	181124	1	DECAL, CONTROL PANEL
8	967340	4	SCREW PAN HD PHL #10-24x5/8
9	964028	4	LOCKNUT, 10-24 CENTER Y
10	105684	1	KEY, IGNITION S/O

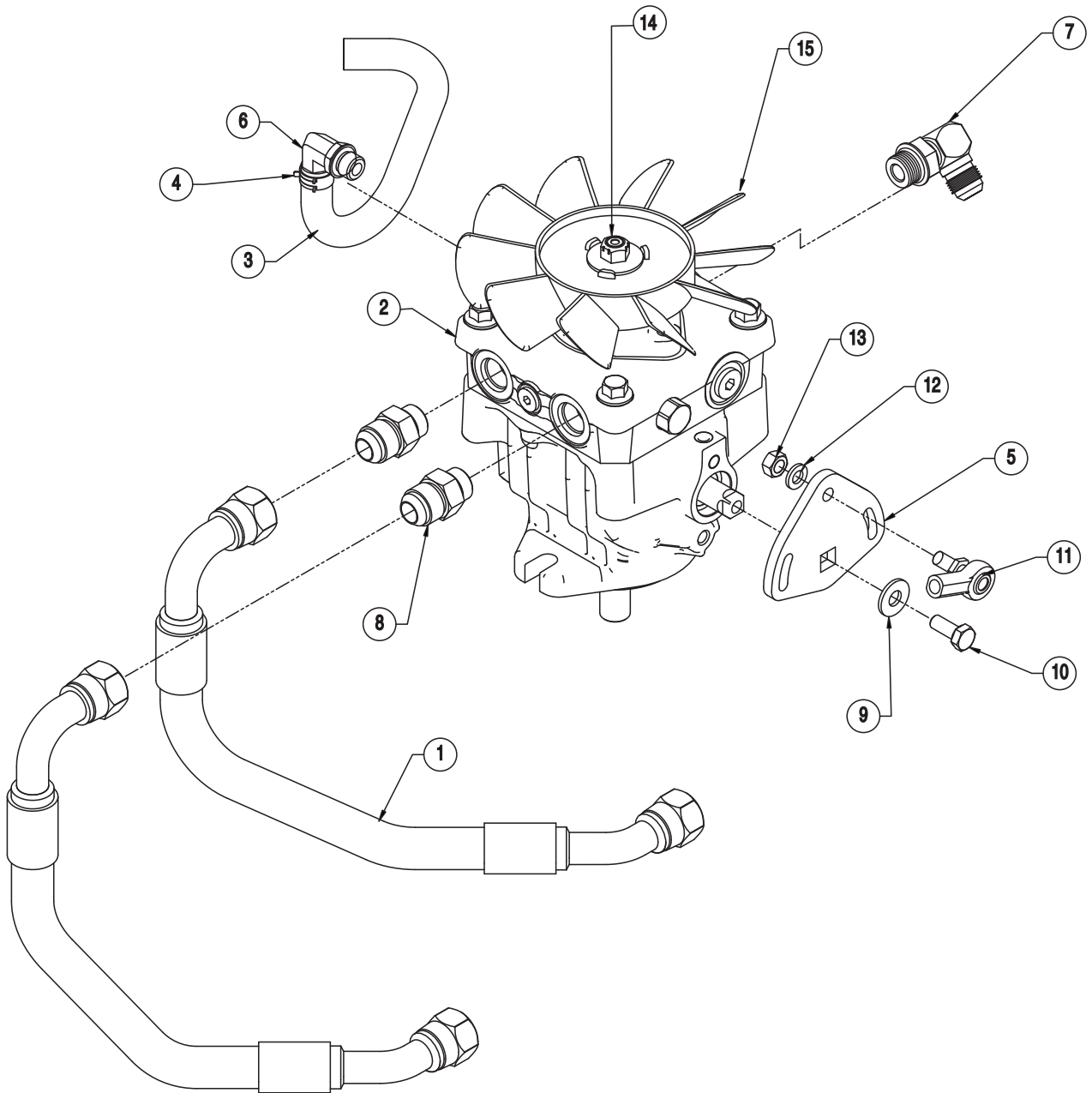
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**ROPS**

ITEM	PART NO	QTY	DESCRIPTION
1	960046	4	BOLT, 3/8-16 X 1.00 HEX
2	960702	4	WASHER, .375 REG FLAT
3	181119	2	PIN ASSEMBLY S/O
4	181092	1	ASSEMBLY, SEAT BELT
5	960602	4	WASHER, .375 SPRING LOCK
6	960704	8	WASHER, .500 REG FLAT
7	181090	4	WASHER, UHMW.56ID X1.25OD X.20TH
8	960122	2	BOLT, 1/2-13 X 3.5 HEX
9	967212	2	PIN, LNC .188X1.25
10	967106	2	LOCKNUT, 1/2-13 CENTER
11	181118	2	KNOB W/STUD, 3/8-16 X 1.5 S/O
12	960504	8	NUT, 1/2-13 STD HEX GR5
13	960604	8	WASHER, .500 MED SPRG LOCK
14	960118	4	BOLT, 1/2-13X2.50 HEX 5
15	960114	4	BOLT, 1/2-13X1.50 HEX 5
16	960703	4	WASHER, .438 REG FLAT
17	960529	2	BOLT, 7/16-20X1.00 HEX 5
18	960528	2	LOCKNUT, 7/16-20 CENTER
19	N/A	1	ROPS DECAL
20	N/A	1	SAFETY DECAL
21	N/A	1	SAFETY DECAL/SEAT BELT

NOTE: USE GRADE 5 REPLACEMENT HARDWARE.

# 74 - HYDRAULIC PUMP ASSEMBLY





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**HYDRAULIC PUMP ASSEMBLY - 75**

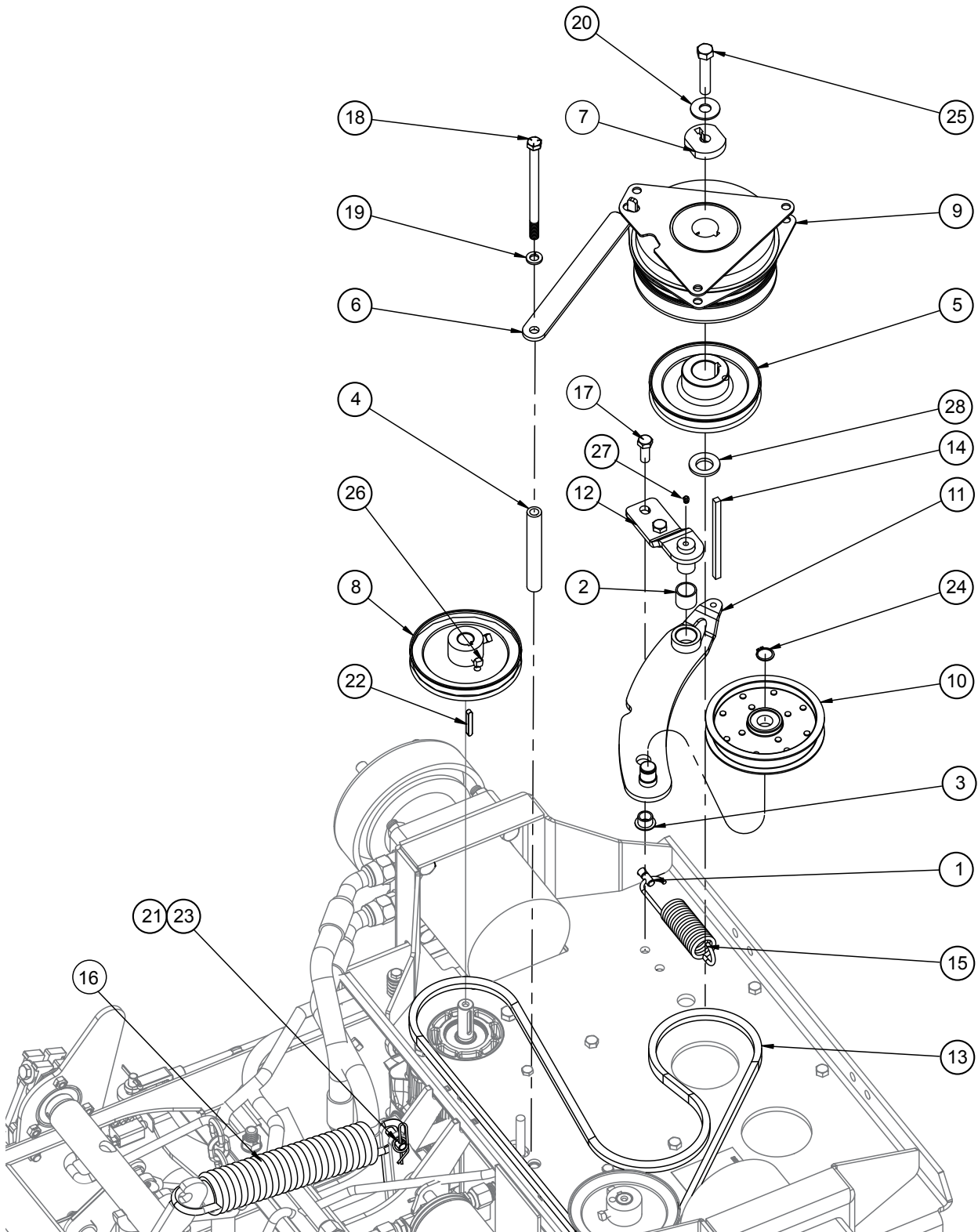
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ITEM	PART NO	QTY	DESCRIPTION
1	180652	2	HOSE - HYD 5/8 X 18.75
2	180831	1	PUMP, LH BDP16A W/FAN
	180832	1	PUMP, RH BDP16A W/FAN
N/I	181065	1	KIT, PUMP SEAL
3	180935	1	HOSE, 3/8 X 12.5 LONG
4	180947	1	CLAMP, .690 OD HOSE PINCH
5	180955	1	PLATE, PUMP CONTROL ARM
6	222151	1	FTG, 9/16 MOR X 3/8 HOSE 90°
7	230668	1	FTG - HYD ELBOW 3/4 O-RING, 3/4JIC
8	313290	2	ADAPTER 3/4-16MORX7/8-14 JIC
9	960701	1	WASHER, .313 REG FLAT
10	961284	1	BOLT, M8 X 1.25 X 20 HEX 8.8
11	180982	1	BALL JOINT, LH 5/16 FMAL W/STD
12	960601	1	WASHER, .313 MED SPRG LOCK
13	964003	1	NUT, 5/16-24 STD HEX GR5
14	964066	1	LOCKNUT, 3/8-24 CROWN
15	180993	1	FAN, BDP16 PLASTIC COOLER

**NOTE: Quantities listed are per side.**

# 76 - CLUTCH ASSEMBLY



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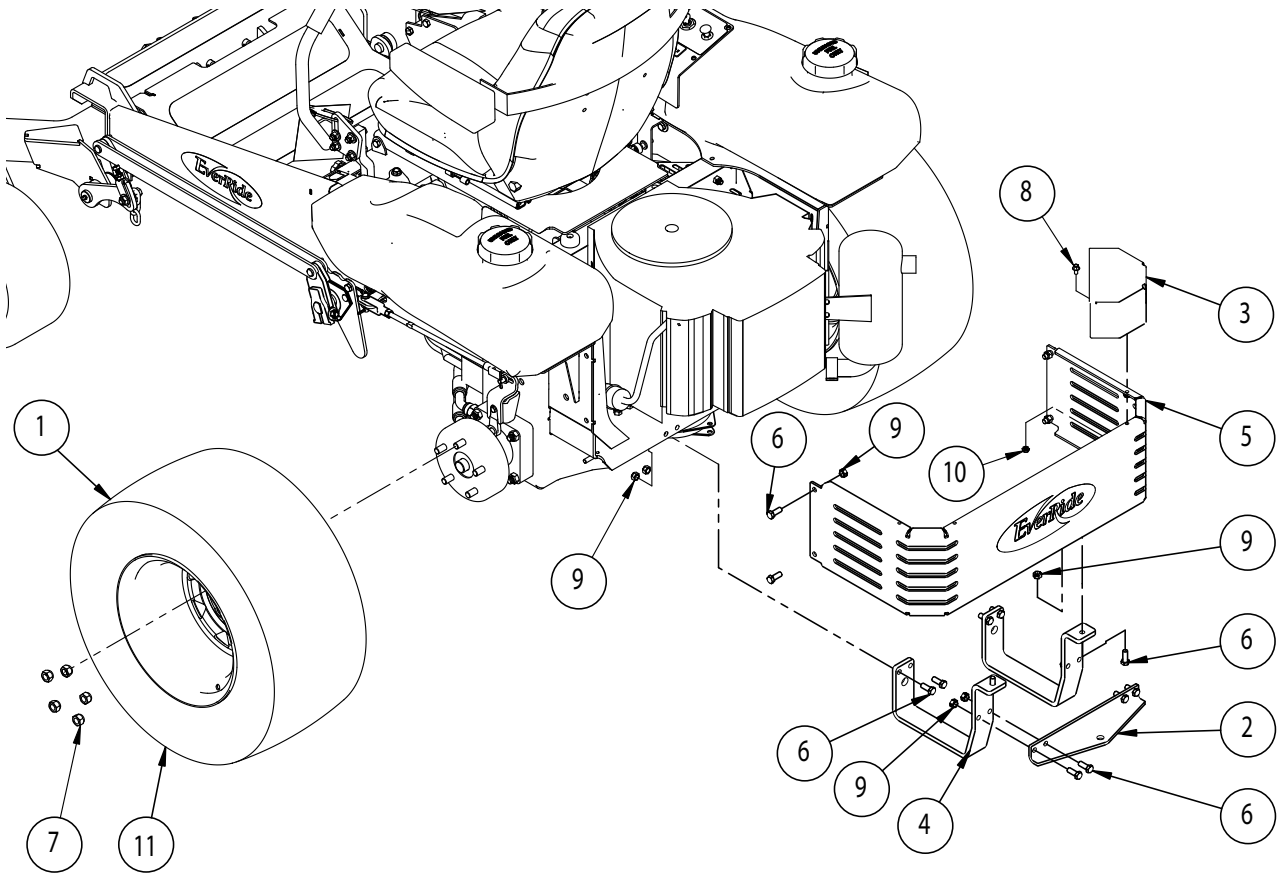
**CLUTCH ASSEMBLY - 77**

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ITEM	PART NO	QTY	DESCRIPTION
1	104024	1	ROD - THREADED ADJUSTMENT
2	105546	3	BEARING, SLV .750 X .875 X .75
3	180354	7	BEARING SHLD 1/2"
4	180591	1	SPACER, .63 X .385X4.50 CLUTCH
5	180641	1	PULLEY, V-BELT 4.78PD X 1.125
6	180670	1	CLUTCH STOP
7	191203	1	WASHER, CLUTCH - W/ KEY HOLE
8	180836	2	PULLEY - PUMPS 4.78 PD 17MM
9	180923	1	CLUTCH, ELECT - OGURA, GT3.5
10	180927	1	Z PUMP BELT IDLER
11	180928	1	Z PUMP BELT IDLER ARM WLDT
12	181237	1	Z PUMP IDLER RETAINER WLDT W/ZERK S/O
13	180932	1	BELT, A62K ARAMID CORD (Hydraulic Pump)
14	180962	1	KEY, .25 X .25 X 4.62 SQ
15	180999	1	SPRING, EXT 1.188 X .162 X 4.25
16	250083	1	SPRING, EXT 1.90 X .306 X 10.75
17	960046	25	BOLT, 3/8-16 X 1.00 HEX 5
18	960063	3	BOLT, 3/8-16 X 5.50 HEX 5
19	960602	1	WASHER, .375 MED SPRG LOCK
20	960703	1	WASHER, .438 REG FLAT
21	967353	1	RING, RUE .375 X .054 X 1.254
22	966053	2	KEY, M5 X M5 X M36 RE
23	967013	6	PIN, CVS .375 X 1.38 X 1.14
24	967018	9	SNAP RING, .621 X .035 EXT
25	967337	1	BOLT, 7/16-20 X 2.25 HEX 5
26	967343	4	SET SCREW, SQ HD 5/16-18 PL
27	959995	1	FTG, 1/4-28 STRAIGHT GREASE
28	161074	1	BUSHING, MACH. 1.13X1.75X.075 (KOHLER ONLY)

# 78 - TIRE & BUMPER ASSEMBLY



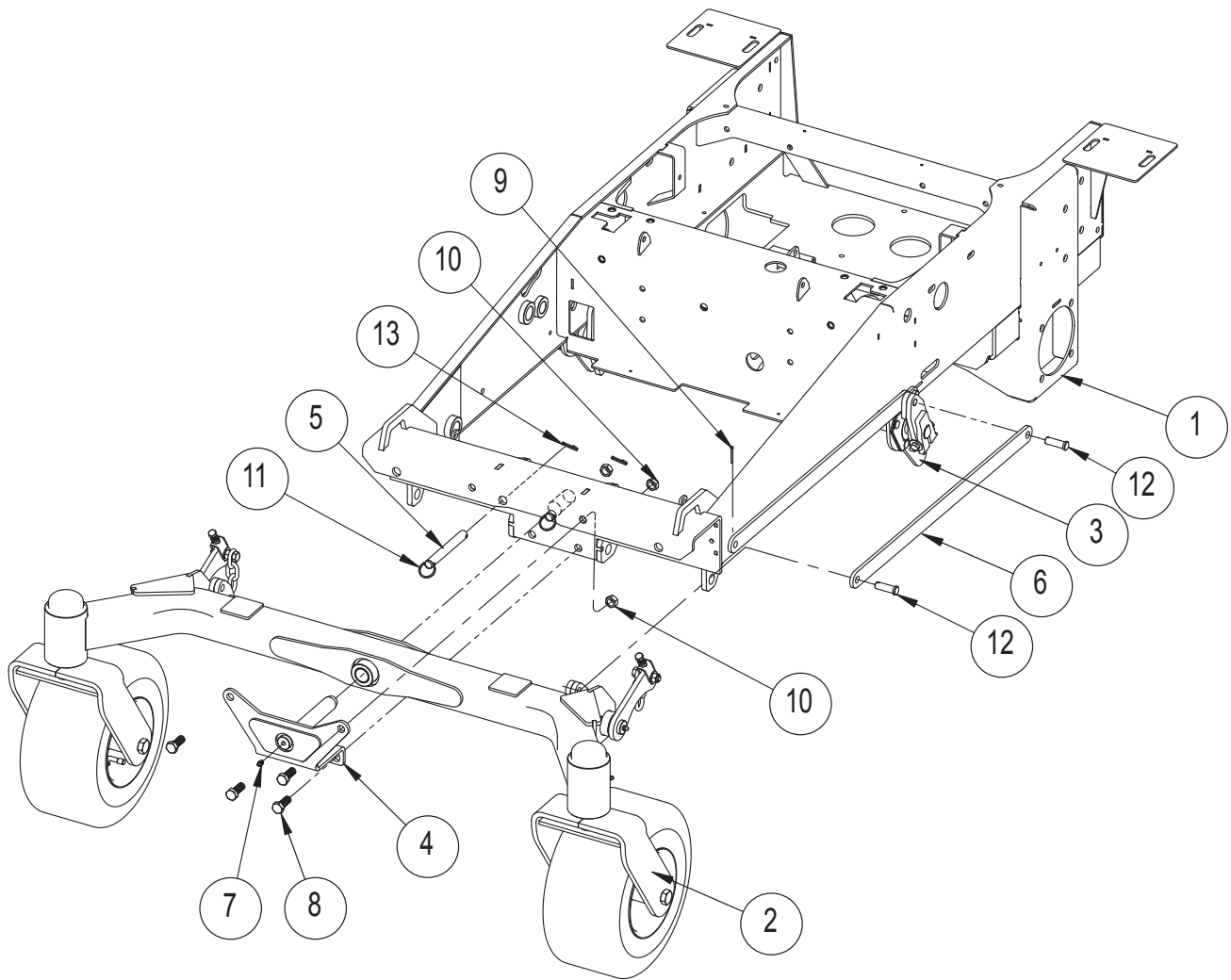
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**TIRE & BUMPER ASSEMBLY - 79**

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ITEM	PART NO	QTY	DESCRIPTION
1	180235	2	ASSY, TIRE & RIM - 24/12 X 12
2	180604	1	REAR SUPPORT
3	180629	1	MUFFLER COVER
4	180721	2	BENT ARM, HITCH
5	181051	1	BUMPER PLATE W/DECALS S/O
6	960046	25	BOLT, 3/8-16 X 1.00 HEX 5
7	960526	10	NUT, 1/2-20 LUG C
8	963000	4	BOLT, 1/4-20 X .500 WSH 5
9	964022	44	LOCKNUT, 3/8-16 CROWN
10	964040	10	LOCKNUT, 1/4-20 WHIZ
11	180924	2	TIRE W/O RIM, 24 x 12 x 12 S/O

# 80 - FRONT AXLE TO FRAME ASSEMBLY



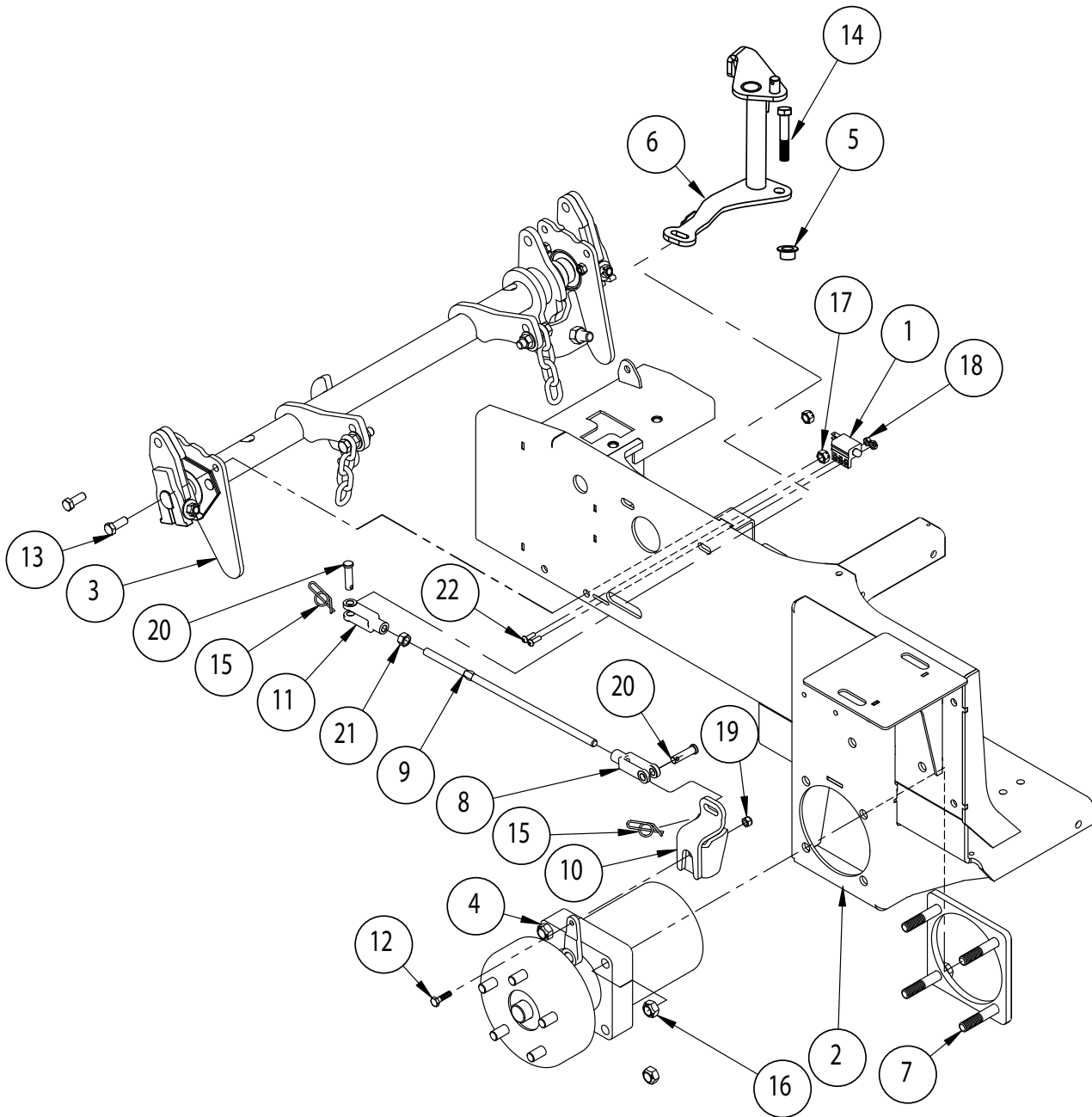
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**FRONT AXLE TO FRAME ASSEMBLY - 81**

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ITEM	PART NO	QTY	DESCRIPTION
1	181259	1	UNIBODY WLDT W/DECALS S/O
2	180046	1	FRONT AXLE FRAME ASSY
3	180085	1	REAR LIFT ROD ASSY
4	180518	1	FRONT AXLE BRKT W/ZERK S/O
5	180830	2	PIN, MFG .625 X 5.00 X 4.38 XDRL
6	180898	2	CONNECTOR LINK
7	959995	1	FTG, 1/4-28 STRGT GREASE ZERK
8	960113	4	BOLT, 1/2-13 X 1.25 HEX 5
9	967354	2	RING, RUE .500 X .062 X 1.42
10	964000	4	LOCKNUT, 1/2-13 CROWN
11	967057	4	RING, WIRE - .080 X 1.25
12	967196	2	PIN, CVS .500 X 1.50 X 1.27
13	967356	2	RING, RUE .625 x .072 x 1.690

# 82 - WHEEL MOTOR ASSEMBLY





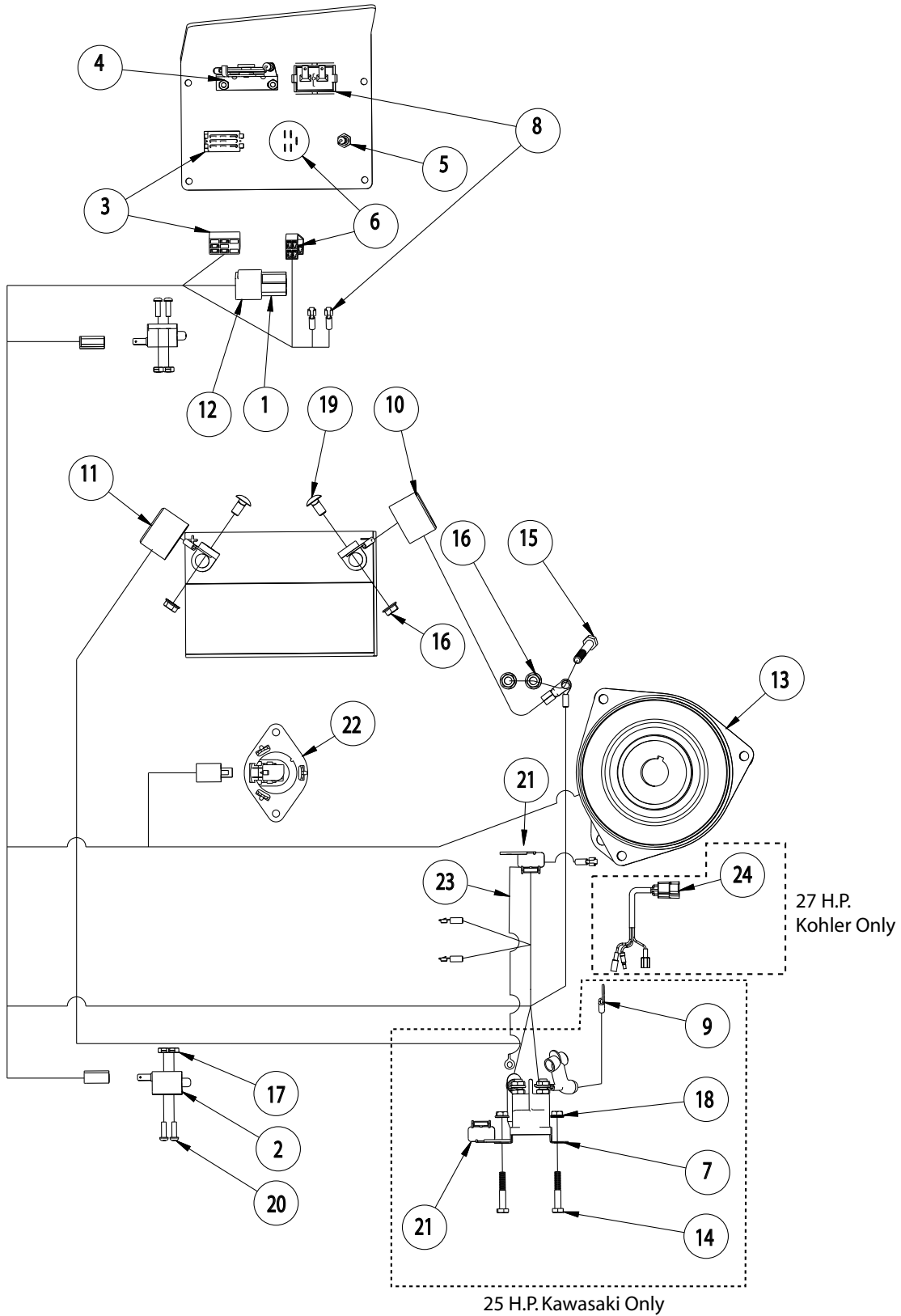
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**WHEEL MOTOR ASSEMBLY - 83**

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ITEM	PART NO	QTY	DESCRIPTION
1	130993	1	SWITCH, LIMIT
2	181259	1	UNIBODY WLDT S/O W/DECALS
3	180085	1	REAR LIFT ROD ASSY
4	180236	1	MOTOR, LH WHEEL
N/I	180237	1	MOTOR, RH WHEEL
5	180354	2	BEARING SHLD 1/2"
6	180509	1	PARK BRAKE CONTROL ARM LH
7	180880	1	WLDT, BOLT PLATE
8	180968	1	YOKE, 3/8-24 LH ADJUSTABLE
9	180981	1	ROD, STRAIGHT PARK BRAKE CONTROL
10	180991	1	WLDT, BRAKE ARM EXTENSION
11	251907	1	YOKE, 3/8-24 RH ADJUSTABLE
12	960002	1	BOLT, 1/4-20 X 1.00 HEX 5
13	960046	2	BOLT, 3/8-16 X 1.00 HEX 5
14	960119	1	BOLT, 1/2-13 X 2.75 G5
15	967353	2	RING, RUE .375 X .054 X 1.254
16	964000	5	LOCKNUT, 1/2-13 CROWN
17	964022	2	LOCKNUT, 3/8-16 CROWN
18	964028	2	LOCKNUT, 10-24 CENTER
19	964048	1	LOCKNUT, 1/4-20 NYLOC
20	967013	2	PIN, CVS .375 X 1.38 X 1.14
21	967054	2	NUT, 3/8-16 STD HEX GR 5
22	967340	8	SCREW, PAN HD PHL #10-24 X 5/8

# 84 - ELECTRICAL COMPONENTS



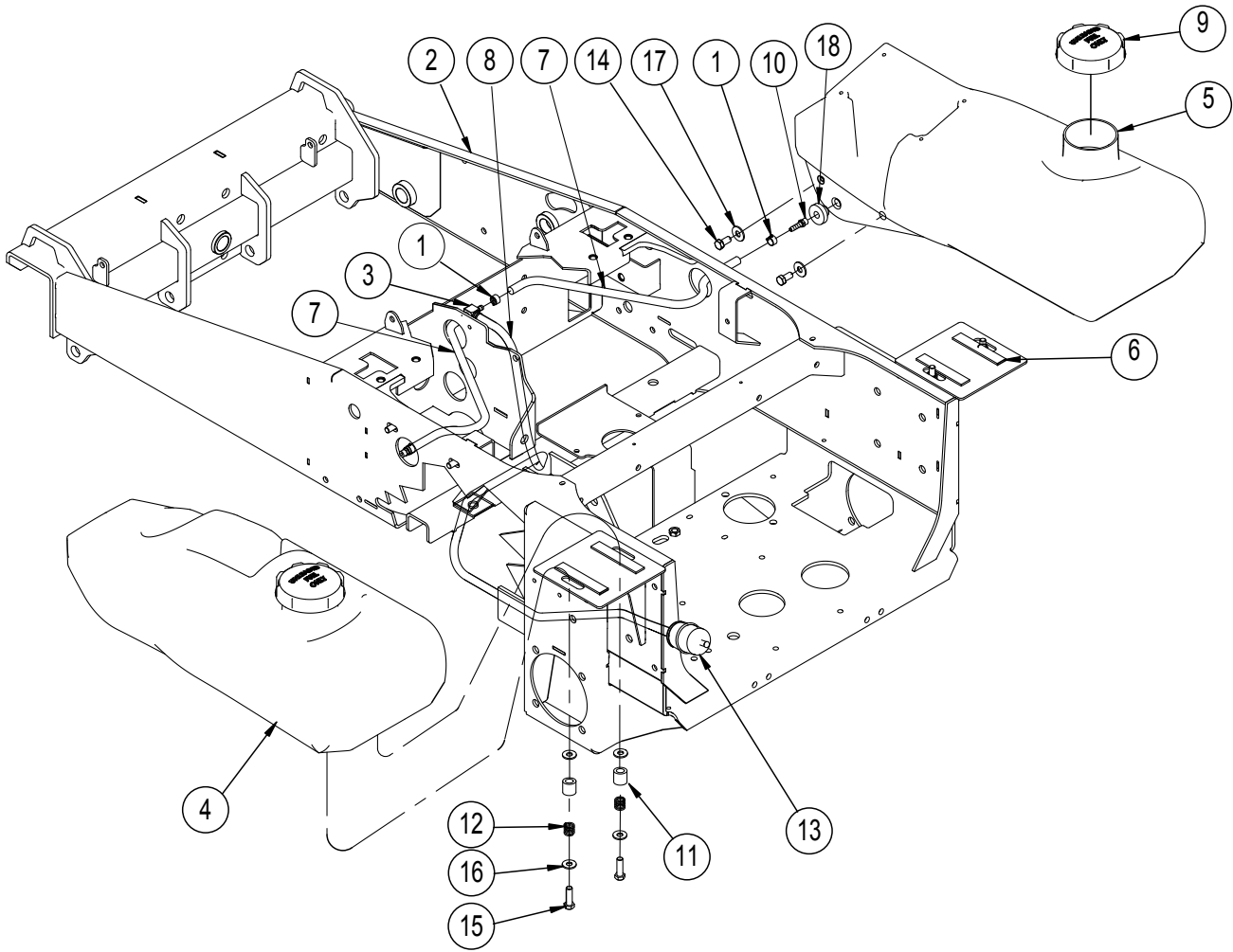
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**ELECTRIC COMPONENTS - 85**

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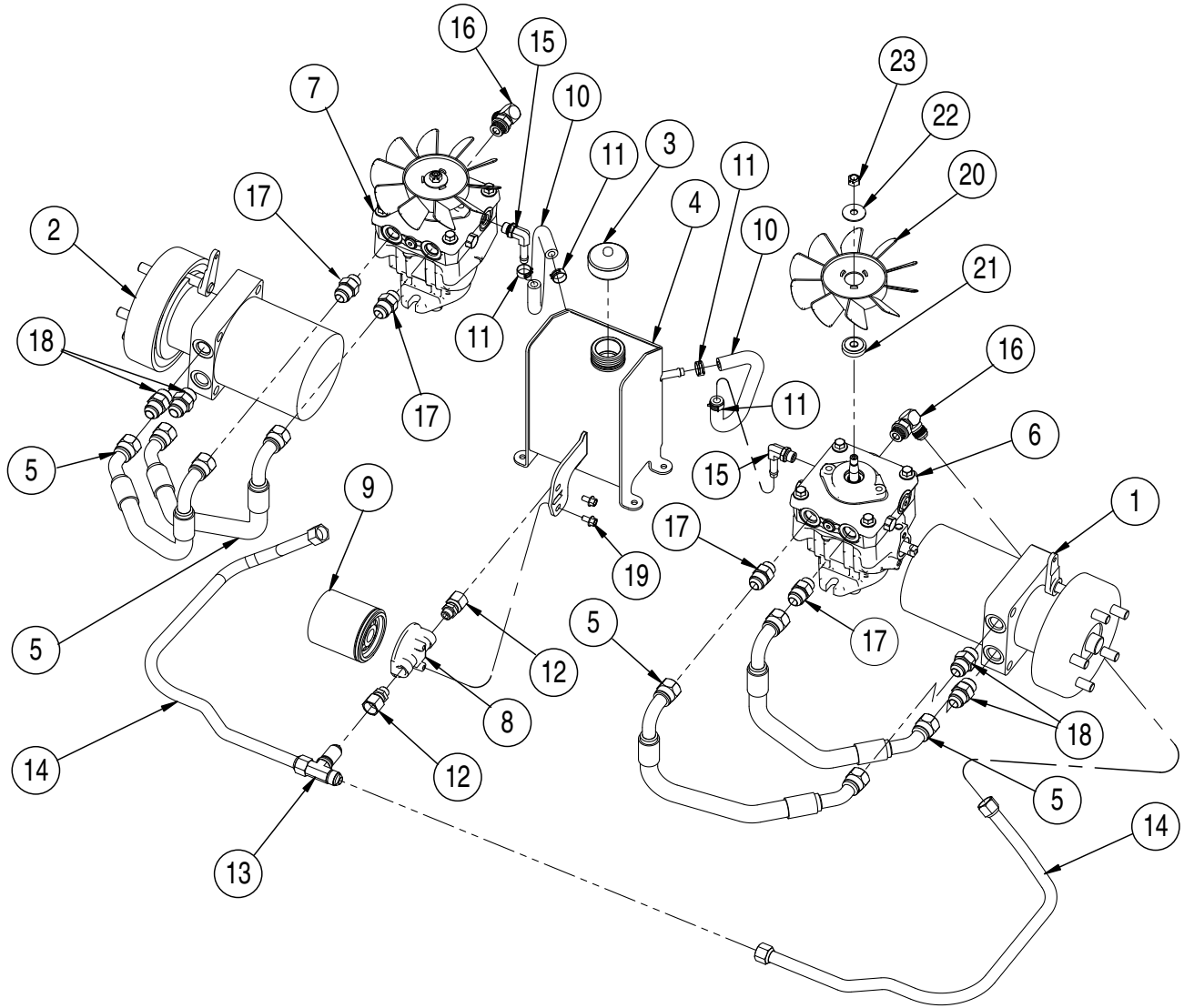
ITEM	PART NO	QTY	DESCRIPTION
1	102770	1	RELAY, ISO MINI ELEC.
2	130993	2	SWITCH, LIMIT
3	136574	1	SWITCH, PTO ENGAGEMENT
4	180272	1	THROTTLE CABLE
5	180273	1	CHOKE CABLE - 25 H.P. KAWASAKI
	181143	1	CHOKE CABLE - 27 H.P. KOHLER
6	180620	1	KEY SWITCH - 3 POSITION
7	180640	1	SOLENOID, 12 V STARTER
8	180799	1	HOUR METER; QUARTZ
9	180842	1	STARTER CABLE - 12" - KAWASAKI
10	180843	1	BATTERY GROUND CABLE - 20"
11	180844	1	BATTERY POSITIVE CABLE - 42" - KAWASAKI
	181148	1	BATTERY POSITIVE CABLE - 48" - KOHLER
12	181140	1	WIRE HARNESS
13	180923	1	CLUTCH, ELECT - OGURA, GT3
14	960004	2	BOLT, 1/4-20 X 1.5 G5
15	960027	1	BOLT, 5/16-18 X 2.00 HEX G5
16	964019	4	LOCKNUT, 5/16-18 WHIZ
17	964028	4	LOCKNUT, 10-24 CENTER
18	964040	2	LOCKNUT, 1/4-20 WHIZ
19	147841	2	BOLT, 5/16-18 X 5/8 CARR GR5 PLT
20	967340	4	SCREW PAN HD PHL #10-24x5/8
21	N/A	2	ATO/ATC BLADE TYPE 20A. FUSE
22	181074	1	SEAT SWITCH S/O
23	181142	1	JUMPER HARNESS, KAWASAKI ENGINE
24	181141	1	JUMPER HARNESS, KOHLER ENGINE

# 86 - FUEL COMPONENTS



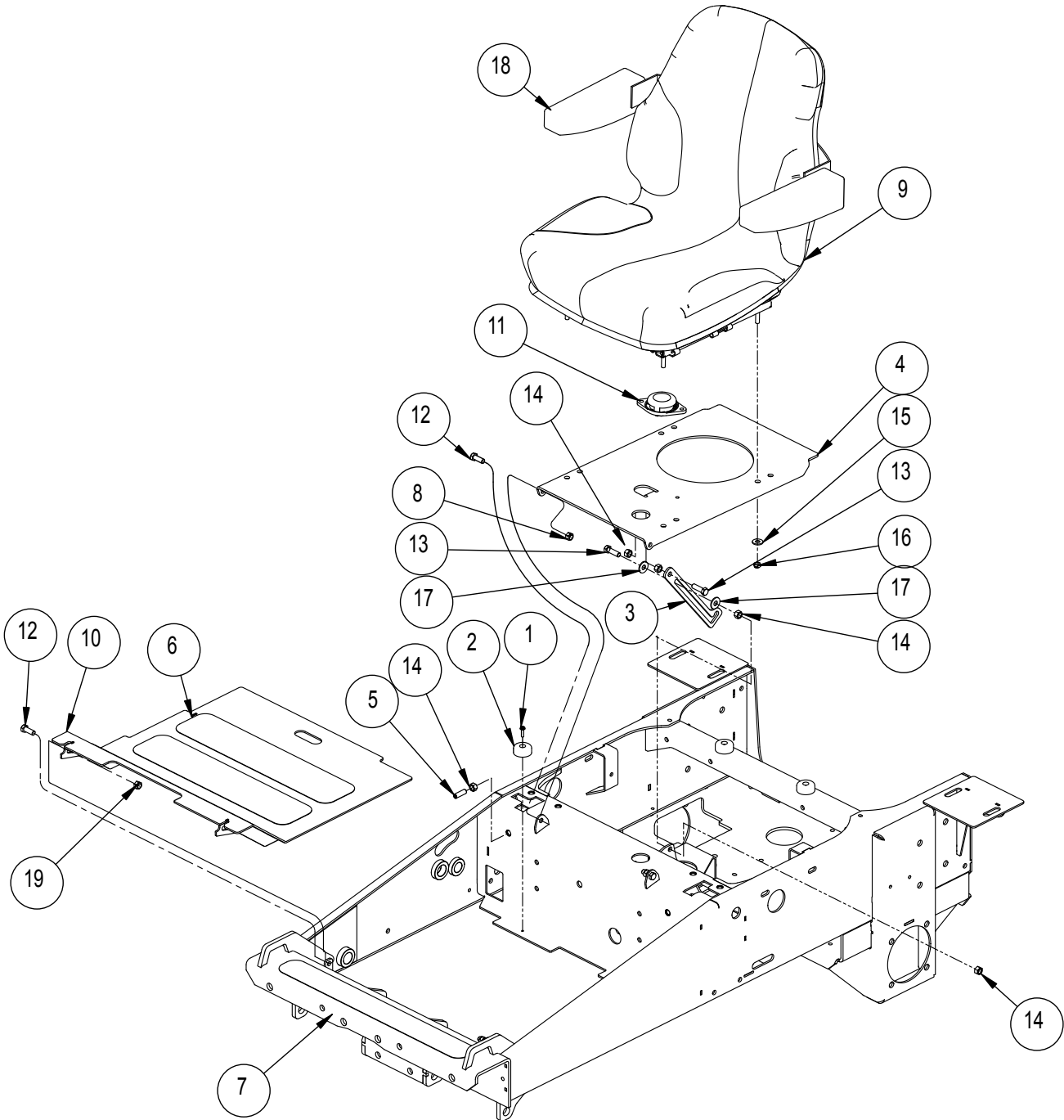
ITEM	PART NO	QTY	DESCRIPTION
1	130924	6	CLAMP, FUEL LINE
2	181259	1	UNIBODY WLDT S/O W/DECALS
3	180505	1	GAS VALVE
4	181185	1	FUEL TANK, LH W/FITTING
5	181184	1	FUEL TANK, RH W/FITTING
6	180897	4	FOAM, 1/8 X 3/4 X 4.0 LONG
7	180906	2	HOSE, FUEL - 18"
8	180907	1	HOSE, FUEL - 48"
9	181251	2	CAP, UNLEADED FUEL
10	181209	2	FITTING, NIPPLE S/O
11	181023	1	SPACER, GAS TANK ATTACHMENT
12	181027	4	SPRING, COM .660 X .067 X .625
13	181060	1	FUEL FILTER - S/O
14	960045	4	BOLT, 3/8-16 X .750 HEX 5
15	960047	4	BOLT, 3/8-16 X 1.25 HEX 5
16	960701	4	WASHER, .313 REG FLAT
17	960702	4	WASHER, .375 REG FLAT
18	181208	2	TANK FITTING, RUBBER S/O

# 88 - HYDRAULIC COMPONENTS



ITEM	PART NO	QTY	DESCRIPTION
1	180236	1	MOTOR ASSY, LH WHEEL **
2	180237	1	MOTOR ASSY, RH WHEEL **
3	181210	1	CAP, OIL RESERVOIR BREATHER
4	181267	1	TANK WLDT, OIL W/DECALS S/O
5	180652	4	HOSE - HYD 5/8 X 18.75
6	180831	1	PUMP, LH BDP16A *
7	180832	1	PUMP, RH BDP16A *
8	180908	1	HEAD, FILTER
9	180909	1	FILTER, 25 MICRON
10	180935	2	HOSE, 3/8 X 12.5 LONG
11	180947	4	CLAMP, .690 OD HOSE PINCH
12	181031	2	FTG, #6 MALE OR x #8 FEMALE 37° JIC
13	181032	1	FTG, BULK HEAD #8 JIC TEE
14	181035	2	HOSE, #8 TOC W/ # 8 SWL 37° JIC
15	222151	2	FTG, 9/16 MOR X 3/8 HOSE 90°
16	230668	2	FTG - HYD ELBOW 3/4 O-RING, 3/4JIC
17	313290	4	ADAPTER, 3/4-16MORX7/8-14 JIC
18	313392	4	ADAPTER, 7/8-14MORX 7/8-14JIC
19	963000	2	BOLT, 1/4-20 X .500 WSH 5
20	180993	2	FAN, BDP16 PLASTIC COOLER
21	180994	2	HUB, BDP16 FAN
22	180995	2	WASHER, .375 X 1.24 X .072 BLVL
23	964066	2	LOCKNUT, 3/8-24 CROWN
*	N/I	2	SEAL KIT, BDP16A PUMP S/O
**	N/I	2	SEAL KIT, DF280 WHEEL MOTOR S/O
**	N/I	4	SPRING, BRAKE RETURN
**	N/I	2	LEVER, BRAKE
**	N/I	2	CLIP, BRAKE SHAFT

# 90 - SEAT & FOOT PLATE ASSEMBLY





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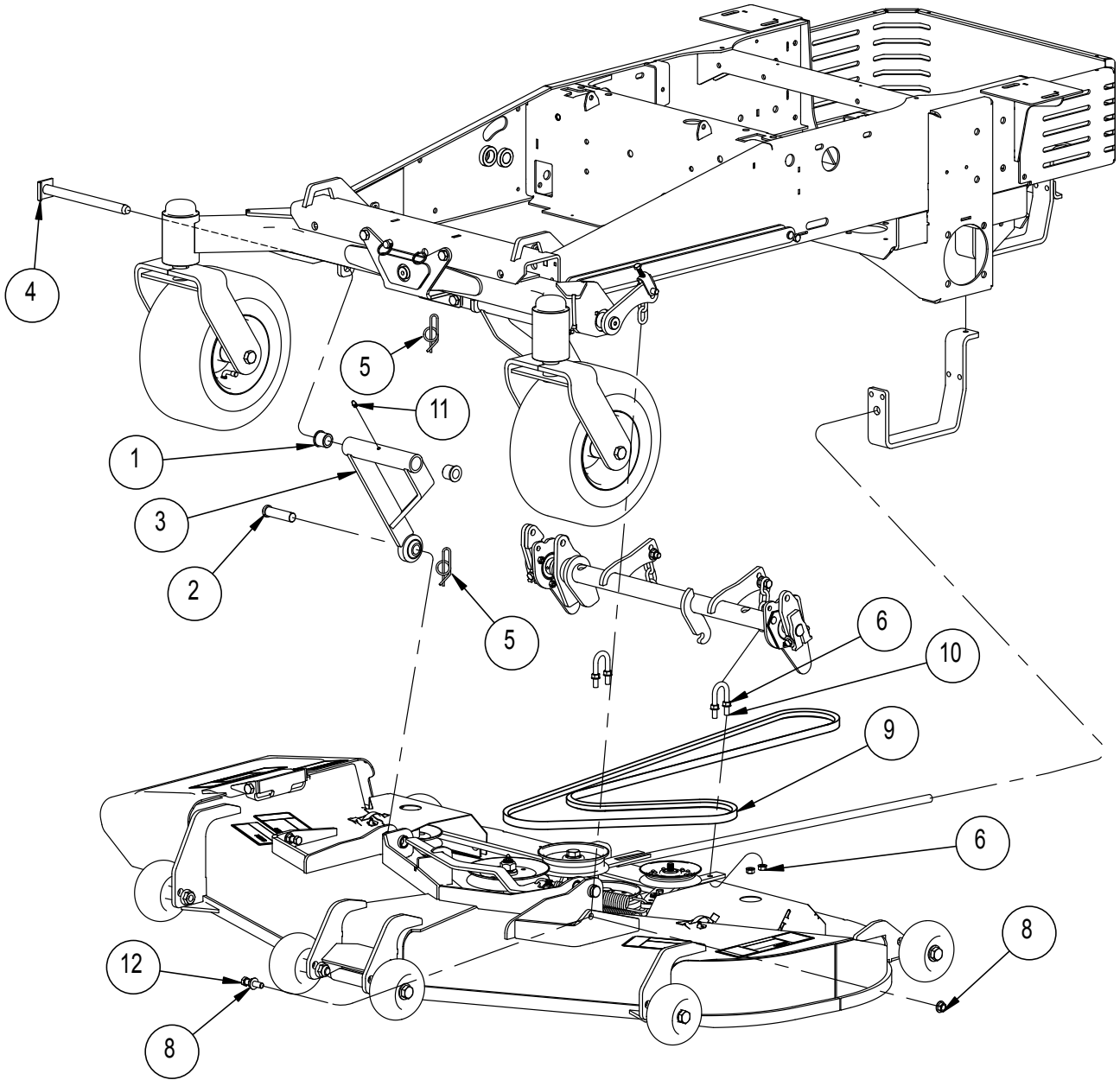
**SEAT & FOOT PLATE ASSEMBLY - 91**

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ITEM	PART NO	QTY	DESCRIPTION
1	103219	4	SCREW SELF TAP #10-24x3/4HHWASH
2	180390	4	BUMPER, RUBBER .625 X 1.50 DIA
3	180391	1	BAR - SEAT LOCK
4	180482	1	PLATE, SEAT
5	962903	2	SET SCREW, 3/8-16 X 3/4 ALHD CUP
6	180658	3	TRACTION TAPE, 4 X 18
7	180659	1	TRACTION TAPE, 2.5 X 21.5
8	964022	4	LOCKNUT, 3/8-16 CROWN
9	180916	1	SEAT - FULL SUSPENSION
10	181050	1	FOOT PLATE S/O
11	181074	1	SEAT SWITCH S/O
12	960046	4	BOLT, 3/8-16 X 1.00 HEX 5
13	960047	2	BOLT, 3/8-16 X 1.25 HEX 5
14	960502	5	NUT, 3/8-16 STD HEX GR5
15	960701	4	WASHER, .313 REG FLAT
16	964021	4	LOCKNUT, 5/16-18 CROWN
17	960702	2	WASHER, .375 REG FLAT
18	181380	2	ARM REST, SUSPENSION S/O

# 92 - DECK ATTACHMENT COMPONENTS



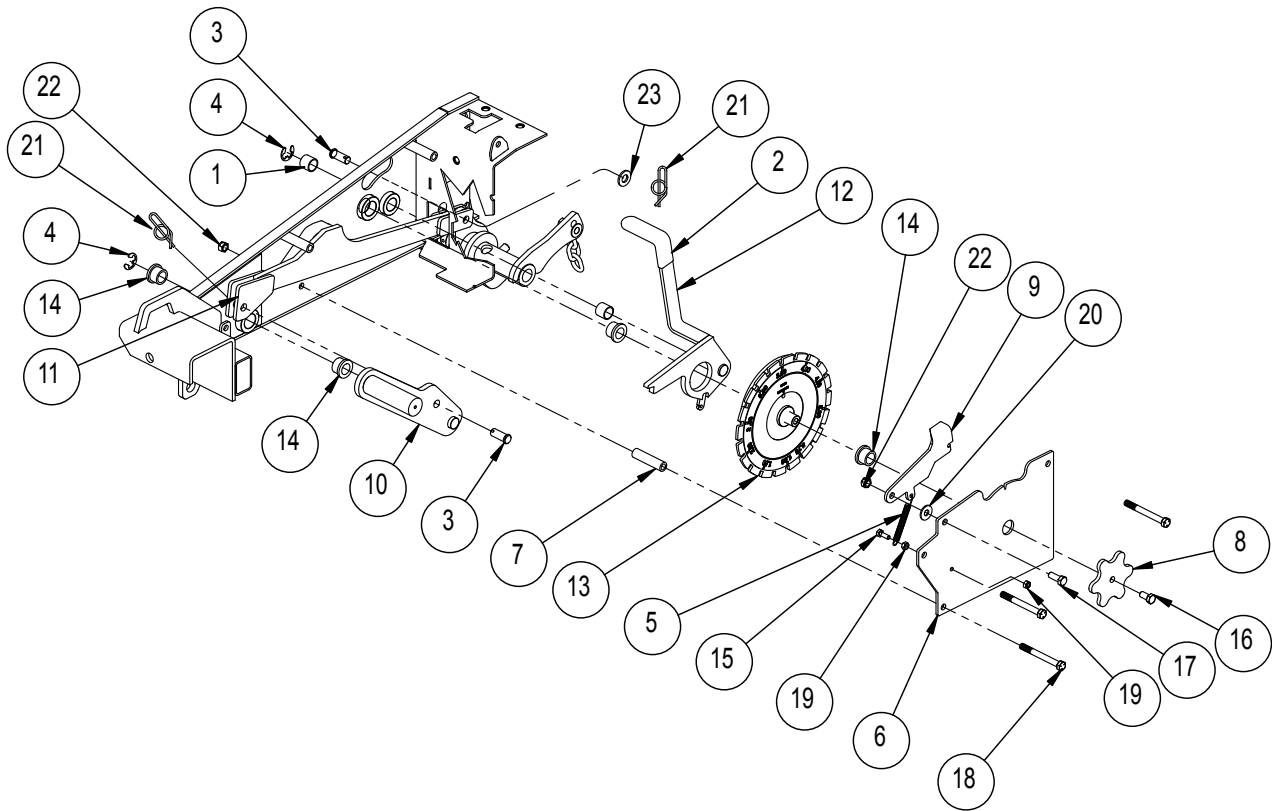
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**DECK ATTACHMENT COMPONENTS - 93**

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ITEM	PART NO	QTY	DESCRIPTION
1	150079	4	BUSHING, 3/4 I.D.
2	161367	2	PIN, CVS .750 X 2.75 X 2.52
3	180114	2	PULL BAR - DECK WLDT
4	180223	2	WLDT, DRAG LINK PIN
5	967357	4	RING, RUE .750 X .080 X 2.081
6	964016	8	LOCKNUT, 3/8-16 WHIZ
7	N/A	1	DECK ASSY, 60" WARRIOR
8	967342	4	LOCKNUT, 7/16-14 WHIZ
9	181139	1	BELT, B112 Kevlar (Clutch to Deck)
10	181017	2	U-BOLT SPECIAL
11	959995	2	FTG, 1/4-28 STRGT GREASE ZERK
12	960082	2	BOLT 7/16-14 X 1 3/4 GR5

# 94 - DECK LIFT COMPONENTS



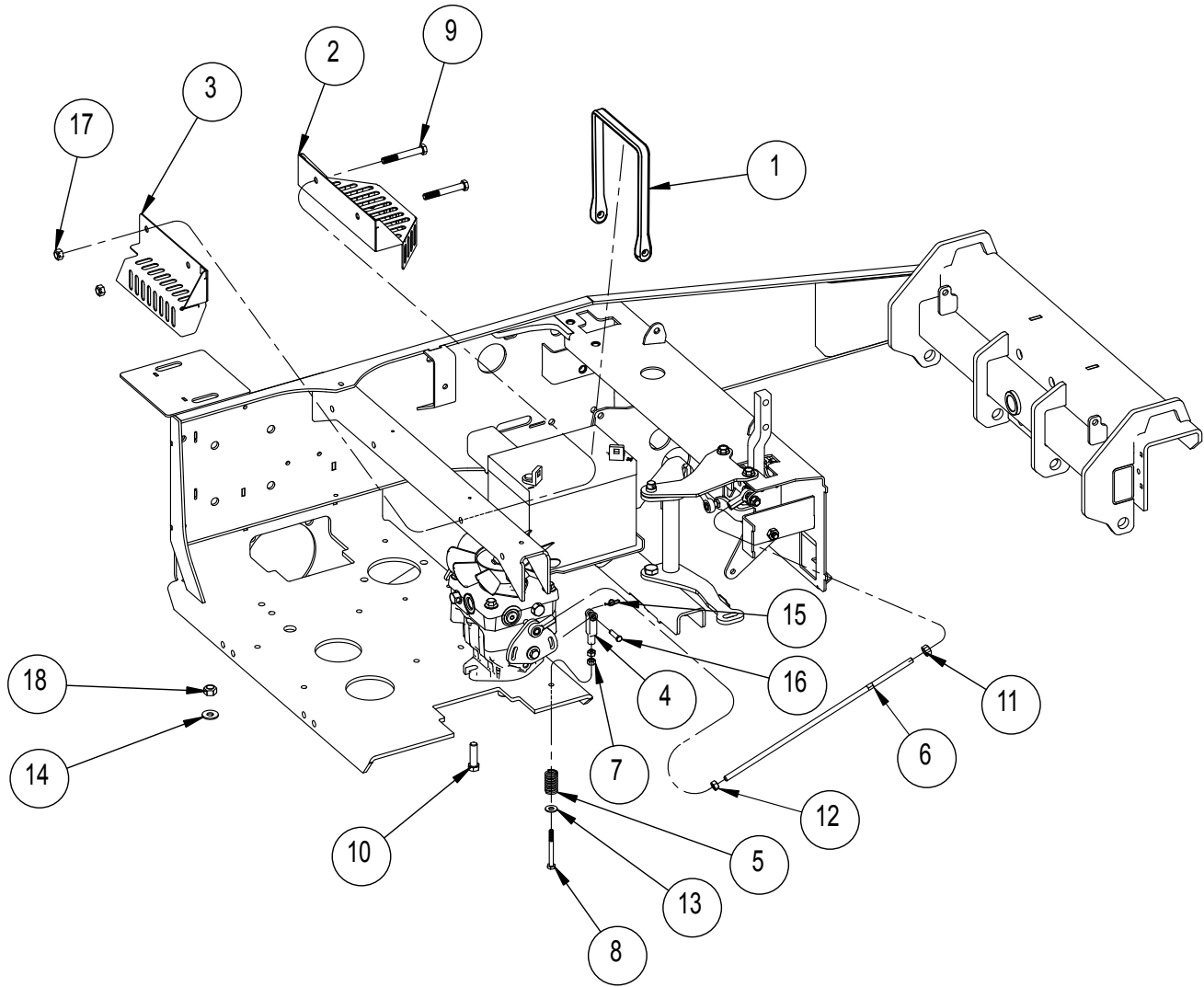
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**DECK LIFT COMPONENTS - 95**

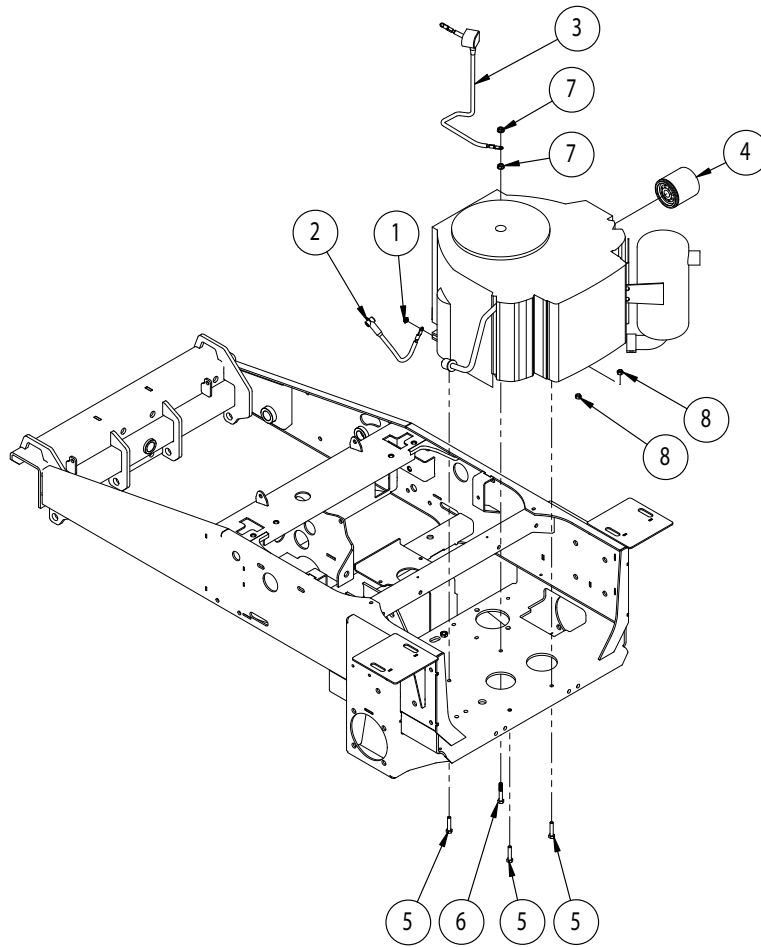
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ITEM	PART NO	QTY	DESCRIPTION
1	105546	2	BEARING, SLV .750 X .875 X .75
2	105593	1	GRIP, RUBBER LEVER
3	110330	2	PIN, CVS .500 X 1.25 X 1.02
4	130886	2	E-RING, 0.750
5	135292	2	SPRING, EXT .375 X .055 X 2.25
6	180576	1	INDICATOR PLATE
7	180577	3	SPACER, .63 X .385 X 2.531 HOC
8	180578	1	HOC HANDLE
9	180587	1	LIFT LOCK
10	180685	1	FOOT ARM WLDT
11	180687	1	FOOT CONNECTOR WLDT
12	180741	1	WLDT, TRANSPORTATION LOCK
13	181261	1	CAM CONTROL, S/O
14	252126	4	BUSHING, .750 X 1.00 X .750
15	960001	2	BOLT, 1/4-20 X .750 HEX 5
16	960045	1	BOLT, 3/8-16 X .750 HEX 5
17	960046	1	BOLT, 3/8-16 X 1.00 HEX 5
18	960056	3	BOLT, 3/8-16 X 3.50 G5
19	960500	4	NUT, 1/4-20 STD HEX GR5
20	960702	1	WASHER, .375 REG FLAT
21	967354	2	RING, RUE .500 X .062 X 1.42
22	964022	4	LOCKNUT, 3/8-16 CROWN
23	964505	1	WASHER, .500 X 1.00 X .105 FLAT

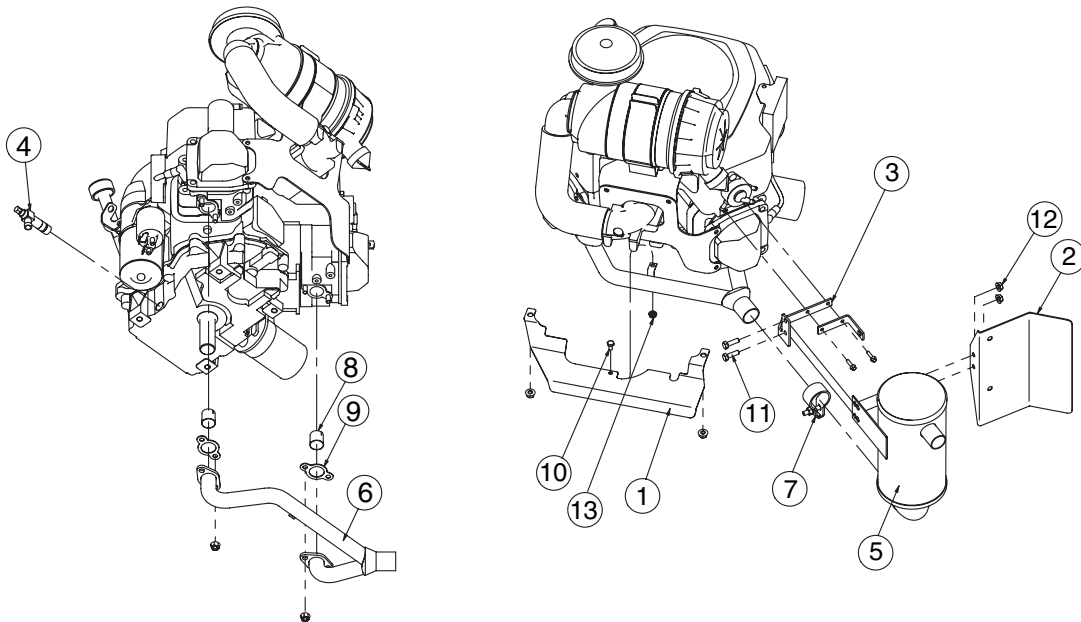
# 96 - PUMP COMPONENTS



ITEM	PART NO	QTY	DESCRIPTION
1	181228	2	BAND, 18"
2	180950	2	SHROUD, FAN FRONT
3	180952	1	SHROUD, FAN REAR RH - 25 H.P. KAWASAKI
	181152	1	SHROUD, FAN REAR RH - 27 H.P. KOHLER
	180951	1	SHROUD, FAN REAR LH - 25 H.P. KAWASAKI
	181149	1	SHROUD, FAN REAR LH - 27 H.P. KOHLER
4	180956	1	YOKE, 1/4-20 RH ADJUSTABLE
5	180957	1	SPRING, .600 x 1.5 x .092 COMP
6	180967	1	PUMP CONTROL ROD
7	964048	2	LOCKNUT, 1/4-20 NYLOC
8	967393	2	BOLT - 1/4-20 X 2.75 SOCKET HEAD
9	960053	2	BOLT, 3/8-16 X 2.75 HEX 5
10	960081	2	BOLT, 7/16-14 X 1 1/2 GR5
11	967054	1	NUT, 3/8-16 STD HEX GR5
12	967338	1	NUT, 5/16-24 HEX GR5 LH
13	960700	3	WASHER, .250 REG FLAT
14	960702	2	WASHER, .375 REG FLAT
15	967350	1	RING, RUE .250 X .041 X .844
16	962200	1	PIN, CVS .250 X 1.00 X .859
17	964022	4	LOCKNUT, 3/8-16 CROWN
18	964025	2	LOCKNUT, 7/16-14 CROWN



27 H.P. KOHLER ENGINE/EXHAUST COMPONENTS





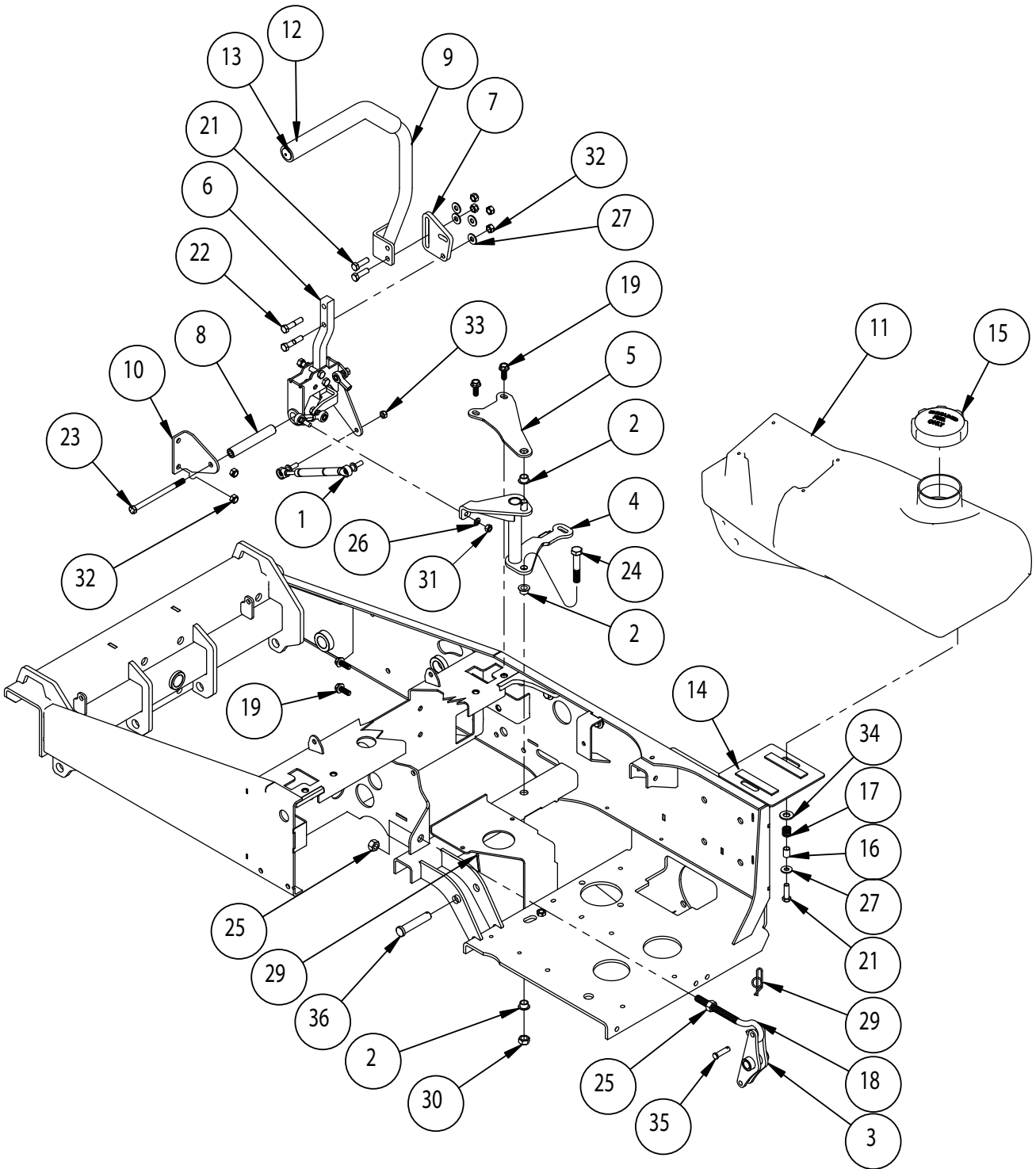
ITEM	PART NO	QTY	DESCRIPTION
1	964040	1	LOCKNUT, 1/4-20 WHIZ
2	180842	1	STARTER CABLE - 12"
3	180843	1	BATTERY GROUND CABLE - 20"
4	181073	1	FILTER, ENGINE OIL - KAWASAKI
	191190	1	FILTER, ENGINE OIL - KOHLER
5	960025	3	BOLT, 5/16-18 X 1.50 HEX 5
6	960027	1	BOLT, 5/16-18 X 2.00 HEX 5
7	964019	2	LOCKNUT, 5/16-18 WHIZ
8	964021	3	LOCKNUT, 5/16-18 CROWN

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**27 H.P. KOHLER ENGINE/EXHAUST COMPONENTS**

ITEM	PART NO	QTY	DESCRIPTION
1	181145	1	SHEILD, MUFFLER-27HP HOR.
2	181146	1	SHEILD, MUFFLER-27HP VERT.
3	181147	1	BRACKET, MUFFLER 27HP
4	181151	1	VALVE, ENGINE OIL DRAIN
5	181153	1	MUFFLER, KOHLER CV-VERT
6	181157	1	MANIFOLD, KOHLER CV-ACS
7	181158	1	CLAMP, MUFFLER 27HP
8	181162	2	SLEEVE, INSULATOR
9	181163	1	KIT, GASKET W/NUTS
10	960000	1	BOLT, 1/4-20 X .500 HEX 5
11	960023	2	BOLT, 5/16-18 X 1.00 HEX 5
12	964019	2	LOCKNUT, 5/16-18 WHIZ
13	964040	1	LOCKNUT, 1/4-20 WHIZ

# 100 - MOTION CONTROL ASSEMBLY



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**MOTION CONTROL ASSEMBLY - 101**

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ITEM	PART NO	QTY	DESCRIPTION
1	180231	1	DAMPNER, STEERING CONTROL
2	180354	3	BEARING SHLD 1/2"
3	180436	1	SPRING PIVOT WLDT
4	180510	1	PARK BRAKE CONTROL ARM RH
5	180522	1	EAR, RH BRAKE PIVOT
NI	180524	1	EAR, LH BRAKE PIVOT
6	180530	1	HANDLE ASSY RH
NI	180531	1	HANDLE ASSY LH
7	180539	1	HANDLE HEIGHT PLATE
8	180543	1	HANDLE SPACER, .75 X .406
9	181048	1	WLDT, RH STEERING HANDLE W/GRIP
NI	181047	1	WLDT, LH STEERING HANDLE W/GRIP
10	180590	1	PLATE, BENT
11	181184	1	FUEL TANK, RH S/O W/FITTINGS
	181185	1	FUEL TANK, LH S/O W/FITTINGS
12	180617	1	GRIP, FOAM
13	180639	1	END PLUG
14	180897	2	FOAM, 1/8 X 3/4 X 4.0 LONG
15	181251	1	CAP, UNLEADED FUEL
16	181023	4	SPACER, GAS TANK ATTACHMENT
17	181027	4	SPRING, COM .660 X .067 X .625
18	250356	1	EYEBOLT - .5 X 6.9
19	960044	4	BOLT, 3/8-16 X 1.00 FGH 8
20	960045	2	BOLT, 3/8-16 X .750 HEX 5
21	960047	6	BOLT, 3/8-16 X 1.25 HEX 5
22	960049	2	BOLT, 3/8-16 X 1.75 HEX 5
23	960063	1	BOLT, 3/8-16 X 5.50 HEX 5
24	960119	1	BOLT 1/2-13 X 2.75 G5
25	960504	2	NUT, 1/2-13 STD HEX GR5
26	960601	1	WASHER, .313 MED SPRG LOCK
27	960701	8	WASHER, .313 REG FLAT
28	960702	2	WASHER, .375 REG FLAT
29	967353	2	RING, RUE .375 X .054 X 1.254
30	964000	1	LOCKNUT, 1/2-13 CROWN
31	964003	1	NUT, 5/16-24 STD HEX GR5
32	964022	6	LOCKNUT, 3/8-16 CROWN
33	964047	2	LOCKNUT, M8-1.25 CROWN
34	964505	4	WASHER, .500 X 1.00 X .105 FLAT
35	967013	1	PIN, CVS .375 X 1.38 X 1.14
36	967249	1	PIN, CVS .625 X 3.00 X 2.77

## 102 - PARTS LIST

PART NO.	PAGE	REF	PART NO.	PAGE	REF
102770	84	1	160116	68	9
103219	90	1	160169	62	11
103906	62	1	161074	76	28
104024	76	1	161367	62	12
104657	62	2	161367	92	2
104834	62	3	161573	62	13
105546	62	4	162146	62	14
105546	76	2	162701	62	15
105546	94	1	162779	62	16
105591	64	1	162801	62	17
105593	94	2	163393	68	11
105596	64	2	180046	80	2
105684	72	10	180055	64	8
110330	94	3	180085	80	3
112614	62	5	180085	82	3
112616	62	6	180097	64	9
130885	64	3	180114	92	3
130886	62	7	180223	92	4
130886	94	4	180231	100	1
130924	86	1	180235	78	1
130993	82	1	180236	82	4
130993	84	2	180236	88	1
135139	62	8	180237	82	N/I
135292	94	5	180237	88	2
136574	72	1	180249	70	1
136574	84	3	180256	64	10
144579	62	9	180257	64	11
145551	68	6	180272	72	2
145552	64	4	180272	84	4
145552	68	12	180273	72	3
145553	64	5	180273	84	5
145555	68	7	180311	62	19
145557	68	5	180354	76	3
145561	68	10	180354	82	5
147841	84	19	180354	100	2
150079	92	1	180390	90	2
150109	64	7	180391	90	3
150110	66	1	180436	100	3
160001	68	8	180440	62	20
160100	62	10	180440	68	*

PART NO.	PAGE	REF	PART NO.	PAGE	REF
180441	68	11	180685	94	10
180443	62	21	180687	94	11
180482	90	4	180721	78	4
180494	62	22	180741	94	12
180496	62	23	180778	62	23
180501	62	24	180780	62	19
180505	86	3	180799	72	6
180509	82	6	180799	84	8
180510	100	4	180830	80	5
180518	80	4	180831	74	2
180522	100	5	180831	88	6
180524	100	NI	180832	74	2
180530	100	6	180832	88	7
180531	100	NI	180836	76	8
180532	70	2	180841	66	2
180536	70	3	180842	84	9
180539	100	7	180842	98	2
180543	100	8	180843	84	10
180544	70	2	180843	98	3
180545	70	3	180844	84	11
180576	94	6	180860	66	3
180577	94	7	180868	66	4
180578	94	8	180880	82	7
180587	94	9	180897	86	6
180590	100	10	180897	100	14
180591	76	4	180898	80	6
180604	78	2	180906	86	7
180606	70	4	180907	86	8
180617	100	12	180908	88	8
180620	72	5	180909	88	9
180620	84	6	180916	90	9
180629	78	3	180923	76	9
180639	100	13	180923	84	13
180640	84	7	180924	78	11
180641	76	5	180925	68	*
180652	74	1	180927	76	10
180652	88	5	180928	76	11
180658	90	6	180932	76	13
180659	90	7	180935	74	3
180670	76	6	180935	88	10

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**104 - PARTS LIST**

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PART NO.	PAGE	REF	PART NO.	PAGE	REF
180947	74	4	181043	62	33
180947	88	11	181047	100	NI
180950	96	2	181048	100	9
180951	96	3	181049	72	4
180952	96	3	181050	90	10
180955	74	5	181051	78	5
180956	96	4	181060	86	13
180957	96	5	181062	62	29
180961	70	5	181065	74	N/I
180962	76	14	181065	88	N/I
180967	96	6	181066	88	N/I
180968	82	8	181071	70	1
180977	64	12	181072	70	2
180981	82	9	181073	98	4
180982	74	11	181074	84	22
180983	64	13	181074	90	11
180983	66	5	181090	72	7
180986	64	14	181092	72	4
180991	82	10	181115	62	65
180992	64	15	181118	72	11
180993	74	15	181119	72	3
180993	88	20	181120	62	66
180994	88	21	181124	72	7
180995	88	22	181129	62	67
180999	76	15	181139	62	31
181010	62	25	181139	92	9
181017	62	26	181140	84	12
181017	92	10	181141	84	24
181023	86	11	181142	84	23
181023	100	16	181143	72	3
181025	62	27	181143	84	5
181026	62	28	181145	98	1
181027	86	12	181146	98	2
181027	100	17	181147	98	3
181031	88	12	181148	84	11
181032	88	13	181149	96	3
181035	88	14	181151	98	4
181036	62	6	181152	96	3
181042	62	28	181153	98	5

PART NO.	PAGE	REF	PART NO.	PAGE	REF
181157	98	6	191565	68	*
181158	98	7	222151	74	6
181162	98	8	222151	88	15
181163	98	9	230668	74	7
181173	62	32	230668	88	16
181174	64	16	250083	76	16
181184	86	5	250356	100	18
181184	100	11	251060	66	6
181185	86	4	251061	66	7
181185	100	11	251907	82	11
181188	62	33	252126	70	6
181190	62	34	252126	94	14
181192	62	35	313290	74	8
181194	62	36	313290	88	17
181208	86	18	313392	88	18
181209	86	10	959995	62	39
181210	88	3	959995	64	17
181228	96	1	959995	68	1
181237	76	12	959995	76	27
181239	62	36	959995	80	7
181251	86	9	959995	92	11
181251	100	15	960000	98	10
181256	62	37	960001	94	15
181258	62	38	960002	82	12
181259	80	1	960004	84	14
181259	82	2	960023	98	11
181259	86	2	960024	62	40
181261	94	13	960025	98	5
181262	62	30	960027	84	15
181263	62	30	960027	98	6
181267	88	4	960044	100	19
181370	88	N/I	960045	86	14
181371	88	N/I	960045	94	16
181372	88	N/I	960045	100	20
181380	90	18	960046	62	41
182189	64	6	960046	72	1
191190	98	4	960046	76	17
191203	76	7	960046	78	6
191565	62	18	960046	82	13

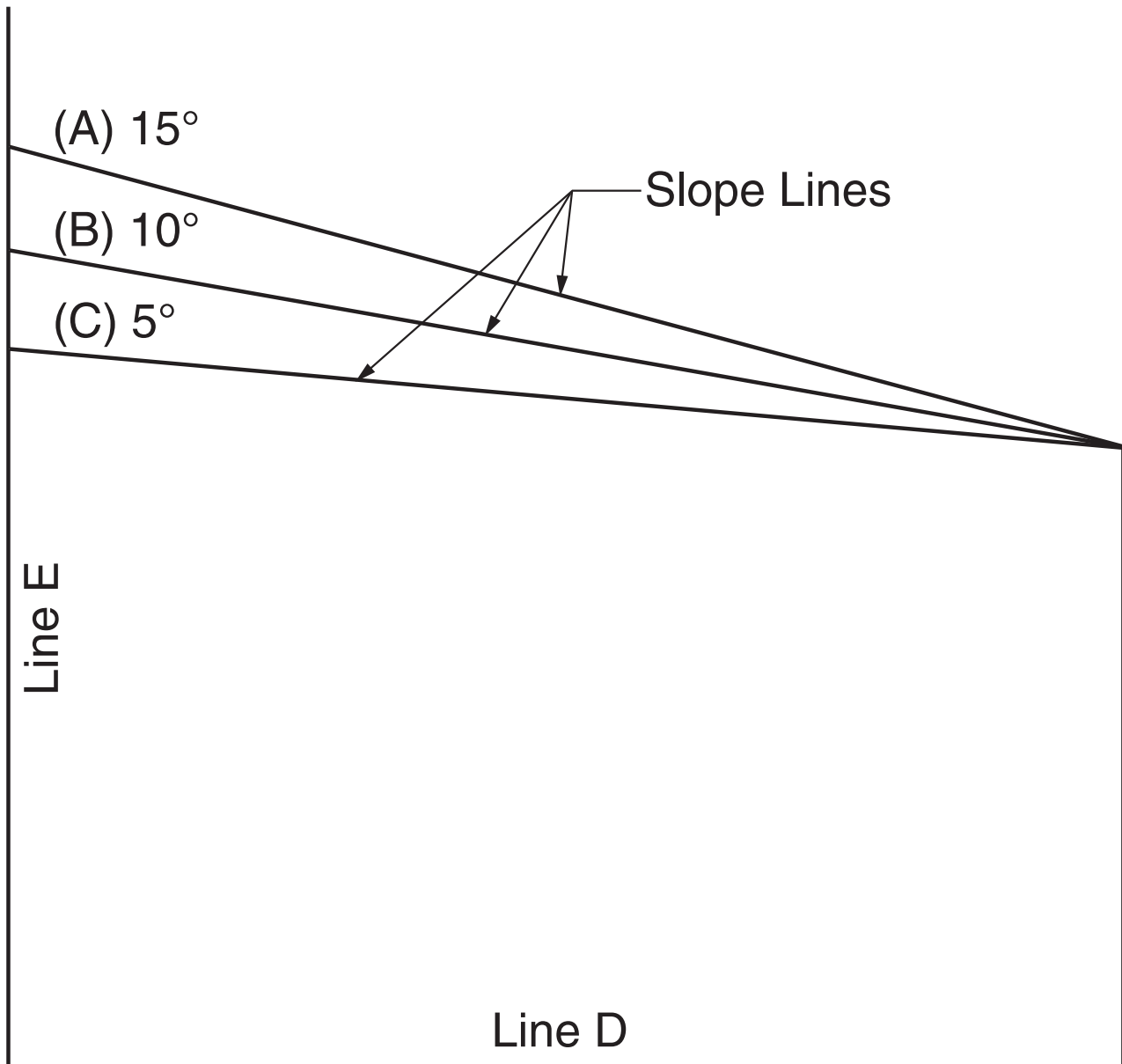
# 106 - PARTS LIST

PART NO.	PAGE	REF	PART NO.	PAGE	REF
960046	90	12	960504	100	25
960046	94	17	960526	78	7
960047	86	15	960528	72	18
960047	90	13	960529	72	17
960047	100	21	960601	70	9
960049	70	7	960601	74	12
960049	100	22	960601	100	26
960051	64	18	960602	72	5
960051	66	8	960602	76	19
960051	70	8	960604	62	51
960052	62	42	960604	72	13
960053	96	9	960700	96	13
960056	94	18	960701	74	9
960063	76	18	960701	86	16
960063	100	23	960701	90	15
960081	96	10	960701	100	27
960082	62	43	960702	64	21
960082	64	19	960702	66	11
960082	66	9	960702	72	2
960082	92	12	960702	86	17
960113	62	44	960702	90	17
960113	80	8	960702	94	20
960114	72	15	960702	96	14
960115	62	45	960702	100	28
960118	72	14	960703	72	16
960119	82	14	960703	76	20
960119	100	24	960704	62	52
960122	72	8	960704	72	6
960128	62	46	961284	74	10
960156	62	47	962018	62	53
960157	62	48	962200	96	16
960167	62	49	962903	90	5
960176	64	20	963000	78	8
960500	94	19	963000	88	19
960502	62	50	963020	62	68
960502	90	14	964000	62	54
960504	66	10	964000	80	10
960504	72	12	964000	82	16





Use the diagram below to help you determine the slope of the terrain which is to be mowed. Never attempt to mow a slope of 15 degrees or more.



1. Cut this page out of the manual.
2. Hold the piece of paper so that Line D is horizontal.
3. Align Line E with a pole, tree, house or other vertical structure.
4. Fold the paper along the slope guide lines to find the closest line to match the slope of the terrain.



