



TO OUR CUSTOMER:

Thank you for purchasing an EverRide Hornet Zero Turn Mower. We believe that you have exercised excellent judgment in your selection. The Hornet mower 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.

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Operator's & Parts Manual
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1 - SAFETY



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.

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 wires. 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.

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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 wires 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.

The discharge shield is subject to wear and deterioration. Inspect it regularly. If replacement is required, always replace it with genuine Everride products.

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.

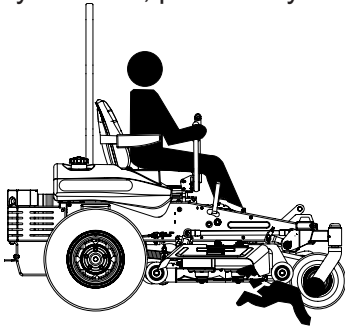
GENERAL SAFETY RULES

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.



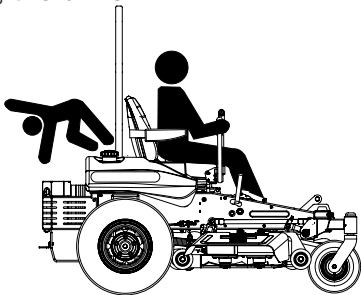
Beware of bystanders, particularly children!



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.

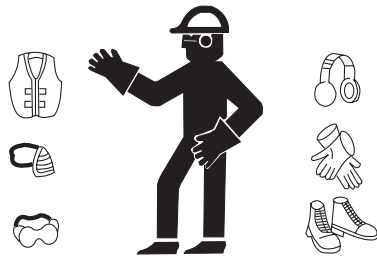
Do not wear headphones or listen to music while operating the deck. Operating the machinery safely requires your undivided attention.

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

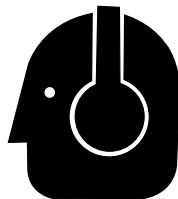
Do not modify the power unit or any of its attachments. Unauthorized modification of the machinery may affect its functionality, which could lead to personal injury.

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.

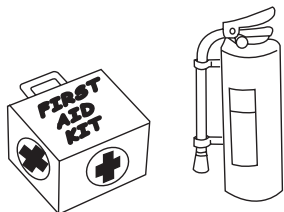
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Operator hearing protection is recommended. Extended exposure to loud noise could lead to hearing loss.



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



Keep emergency numbers for immediate access.

DURING OPERATION

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.



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

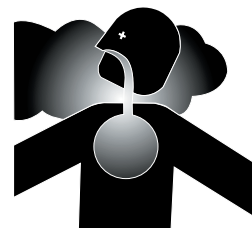
If the starting system does not work, consult your EverRide Dealer immediately.

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

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.

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



Do not turn sharply when driving at high speeds.

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

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.



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.

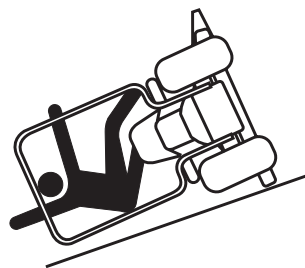
Do not operate the power unit without the mower deck attached.

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.



EverRide does not recommend the use of our mowing machines on inclines that exceed 15 degrees.

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.

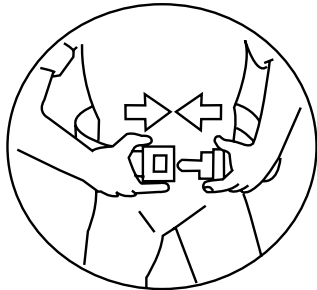
7 - SAFETY

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.

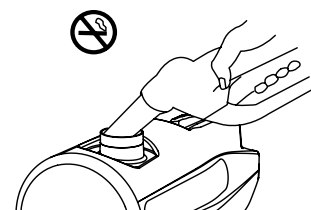
For engine maintenance, follow the engine manufacturers recommendations as noted in the engine manual.

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.



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

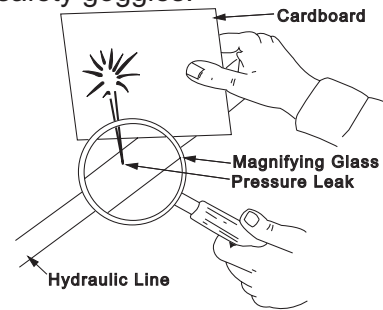
Make sure all hydraulic fluid, hoses, and lines are in good condition and all lines and fittings are tight before applying pressure to the hydraulic system.

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.

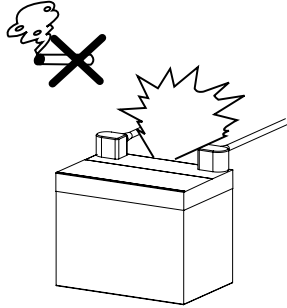
Batteries contain sulfuric acid electrolyte. Always wear protective clothing and eye protection when servicing.

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).

9 - SAFETY

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.

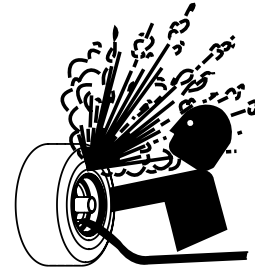
TIRE MAINTENANCE

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.

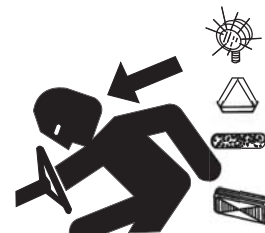
EverRide will not claim responsibility for installation of unapproved parts and/or accessories and damages as a result of their use.

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.

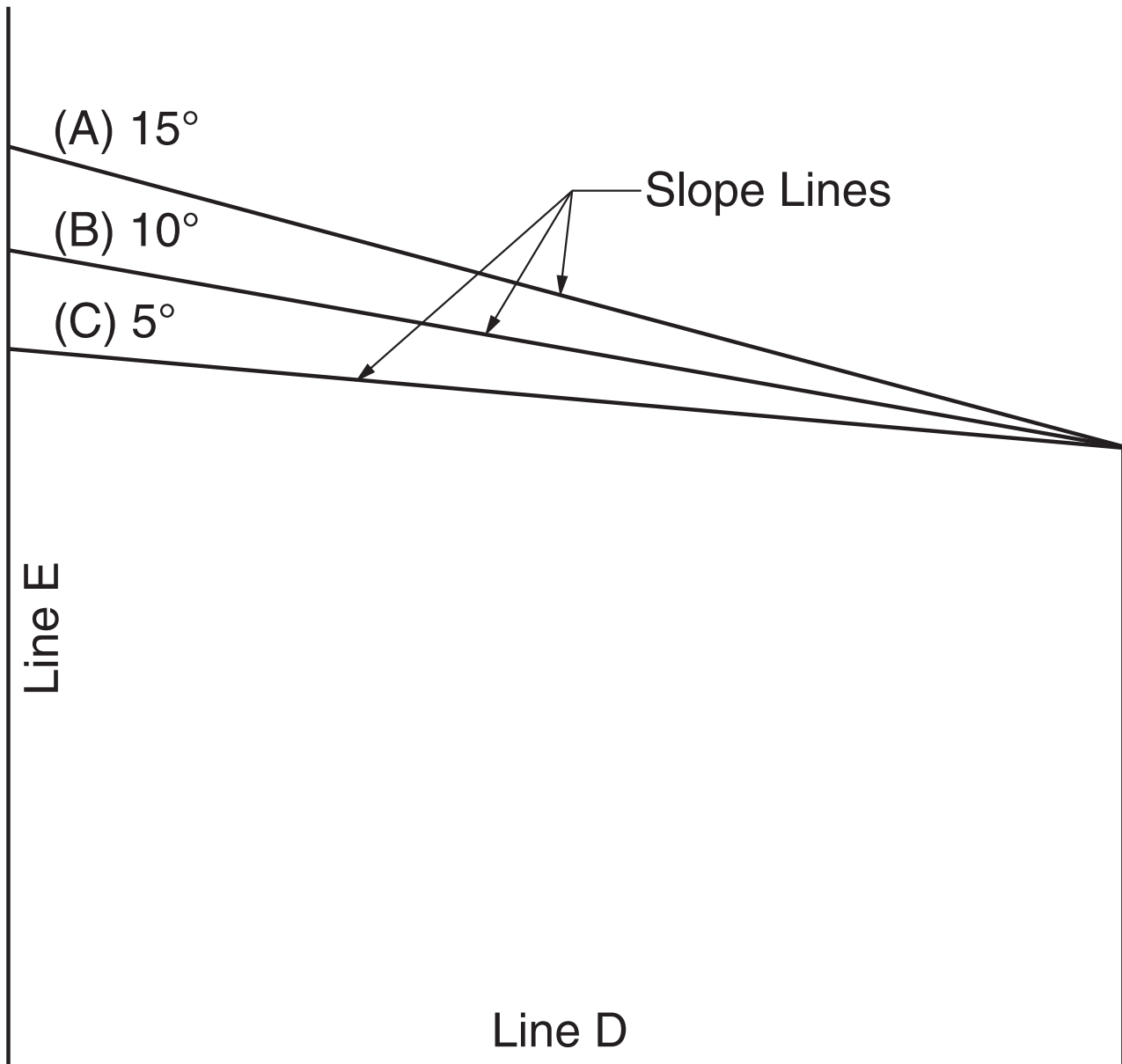
It is recommended this machine not be used on public roads.



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.

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.

11 - SLOPE GUIDE

Made with Pride In the



USA Auburn, NE



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 SUDDEN STARTS.
- 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.

191214

1. 191214

DANGER!





3. 180996

ATTENTION

- Hydraulic Oil -
SAE 20W50 SJ/CD

Fill Until Oil Covers
Top Of Baffle

Use Of Non-Recommended
Oils Could Cause Damage

191254

4. 181254



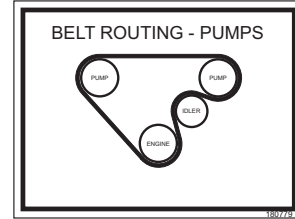
5. 181003



6. 181000

181441

9. 181441



2. 180779

BELT ROUTING

LUBRICATION INTERVALS

REF	DESCRIPTION	FREQUENCY
1	ENGINE OIL LEVEL	DAILY
2	HYDRAULIC FLUID LEVEL	DAILY
3	DECK BELT TENSIONER	25 HOURS
4	PUMP BELT IDLER	25 HOURS
5	PUSH LINK PIVOTS (2)	40 HOURS
6	LIFT LINK PIVOTS (4)	40 HOURS
7	FRONT WHEEL AXLES(2)	40 HOURS

191351

8. 191351



11. 180954

WARNING

- Shield Missing.
- DO NOT Operate.

12. 160169

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

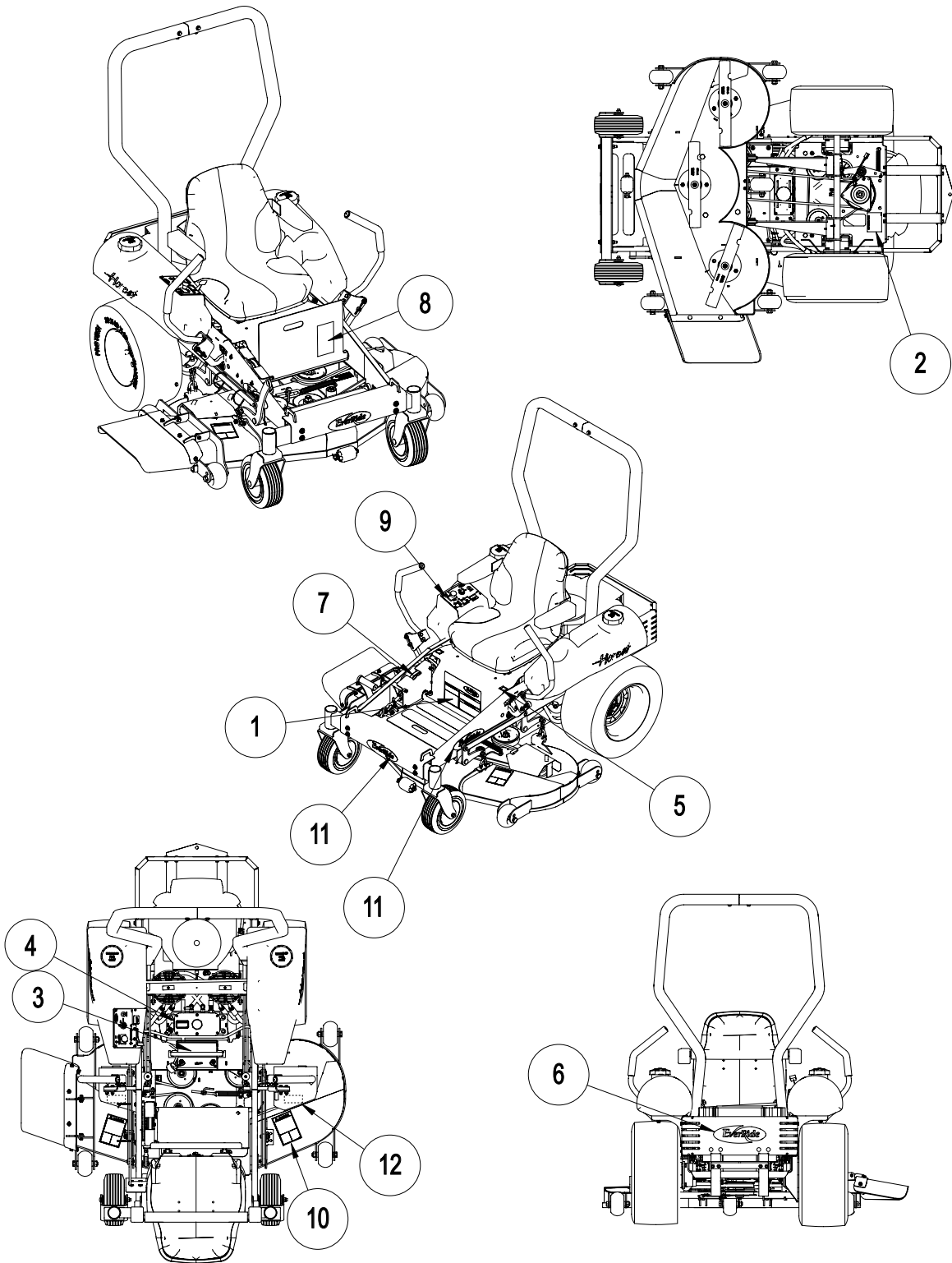



181258

10. 181258



13 - SAFETY & INSTRUCTION DECALS



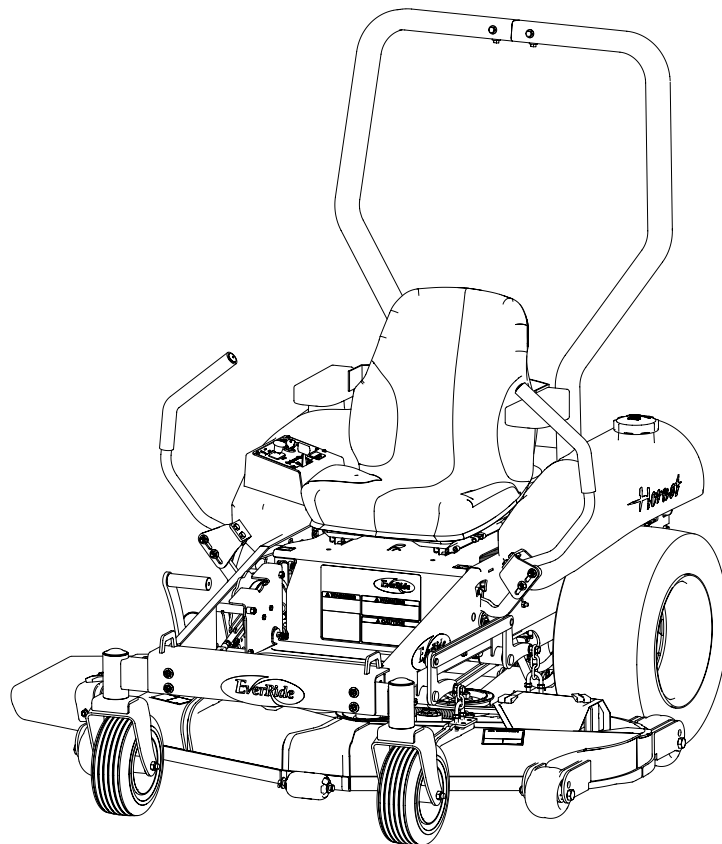
INTRODUCTION

The information in this publication describes the operation, maintenance and servicing of the EverRide Hornet 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

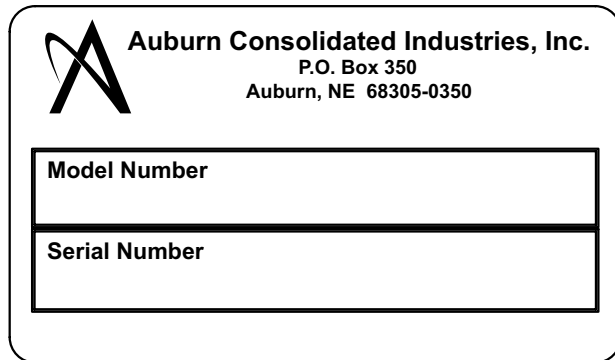
Each EverRide Hornet mower is identified by means of model and serial numbers. As a further identification, the engine is also provided with identification numbers.

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

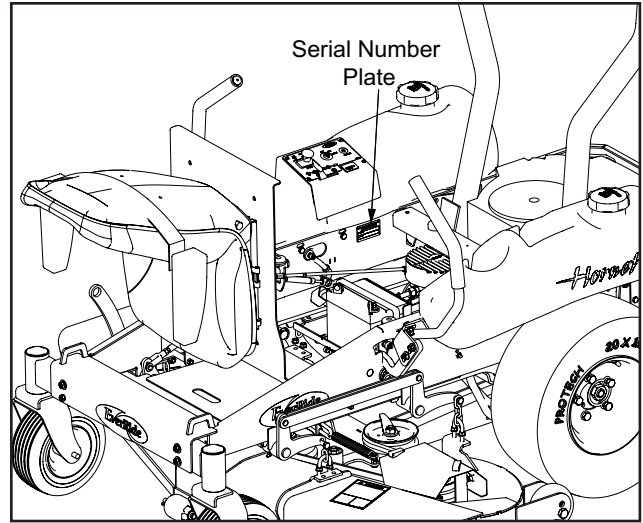
MOWER MODEL

MOWER 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 the frame below the instrument panel. Information contained in this serial tag is the model number and the serial number.



ENGINE MODEL NUMBER

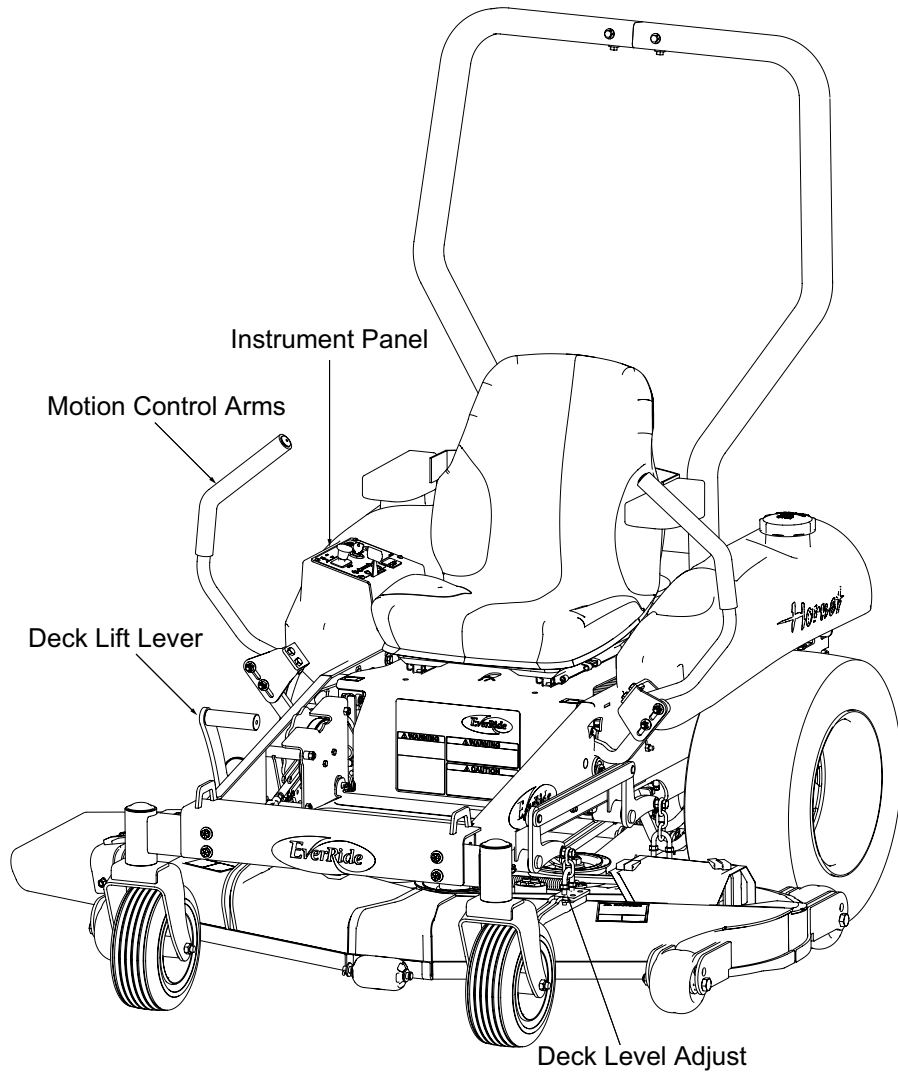
ENGINE SERIAL NUMBER

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.

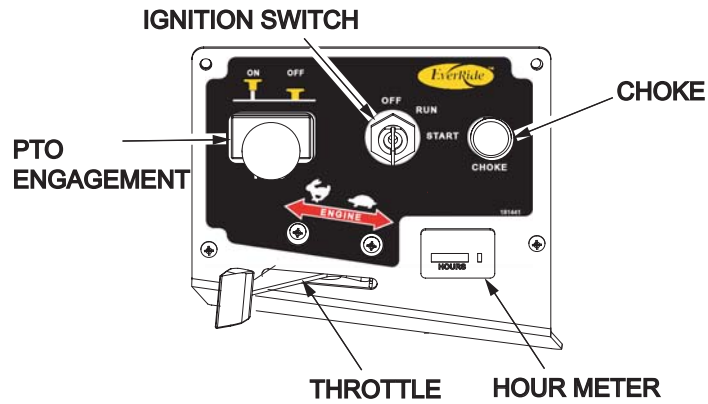
NOTE: Reference to left-hand and right-hand, used throughout this manual, refers to the position when seated in operator's seat and facing forward.

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



17 - INSTRUMENTS AND CONTROLS

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.

HOUR METER

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

The hour meter works electronically and is activated with an oil pressure switch when the unit is started.

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.

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.

19 - OPERATING THE POWER UNIT

- 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

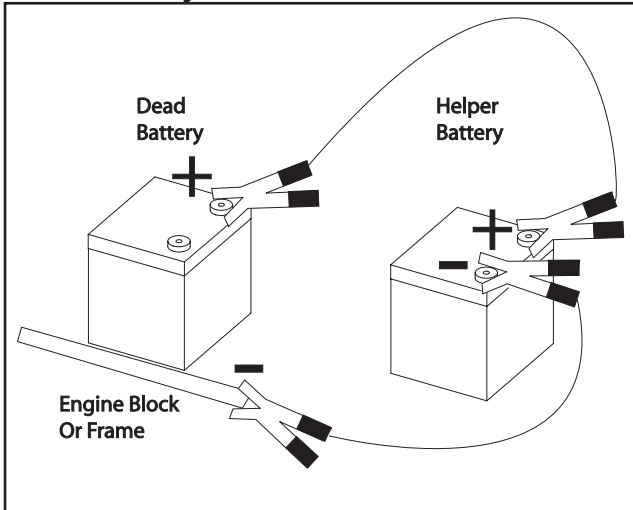


WARNING: Battery gases can be explosive. Keep all cigarettes, sparks or flames away from the battery.



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. Raise the seat and seat plate and attach the red clamp to the red pole (positive +) on the dead mower battery. This clamp should lie parallel with the tractor frame. 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. Lower the seat to make sure the positive cable end does not come into contact with the seat plate and start the disabled mower.

⚠ WARNING: Do not allow the seat plate to touch the jumper cables when attempting a jump start.

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 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.

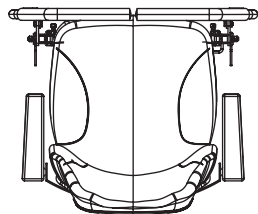
OPERATING THE EVERRIDE MOWER

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.

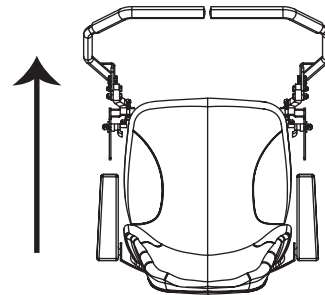
STEERING CONTROLS

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.



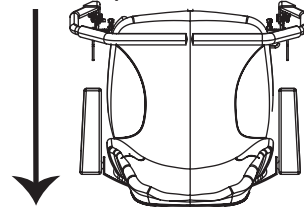
NEUTRAL

To go forward, push both levers straight ahead.



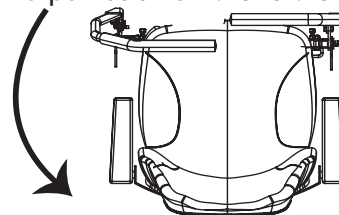
STRAIGHT FORWARD

To go in reverse, pull both levers straight back.



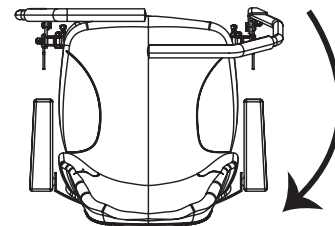
STRAIGHT REVERSE

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



REVERSE LEFT

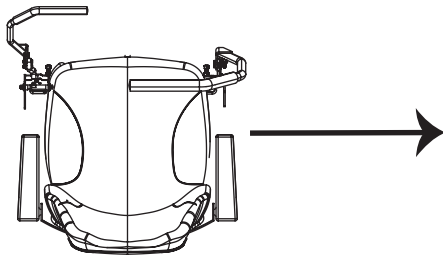
To turn left in reverse, leave the left lever in neutral and pull the right lever straight back.



REVERSE RIGHT

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

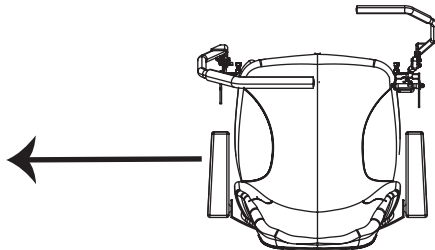
To make a sharp right turn, push the left lever straight ahead and pull the right lever straight back.



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.

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 200 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.

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: The deck HOC must be at the highest cutting height to prevent contacting the deck with the trailer or truck.

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

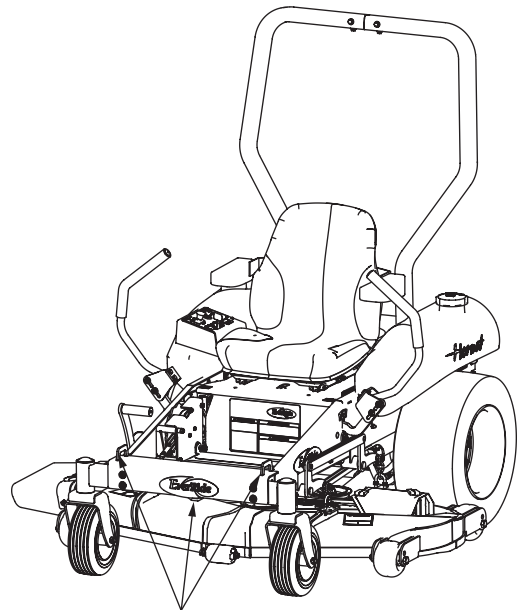
⚠ WARNING: Avoid sudden acceleration and deceleration of the unit when loading and unloading the unit to avoid the mower from tipping backward.

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.

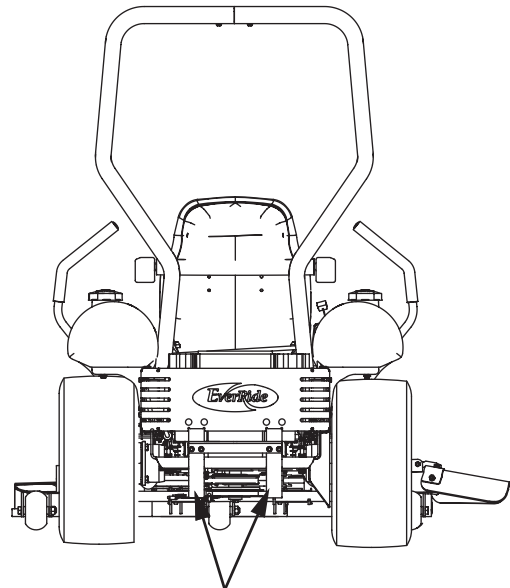
TRANSPORTING THE MOWER

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. Tie down locations have been built into the machine to facilitate ease during this process. Note the tie down locations in the illustration.



Front Tie Downs



Rear Tie Downs



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 5.5 inches (maximum) height of cut. After mowing once, re-cut the entire area with the mower reset to the desired final height of cut.

25 - 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 anti-scalp 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.

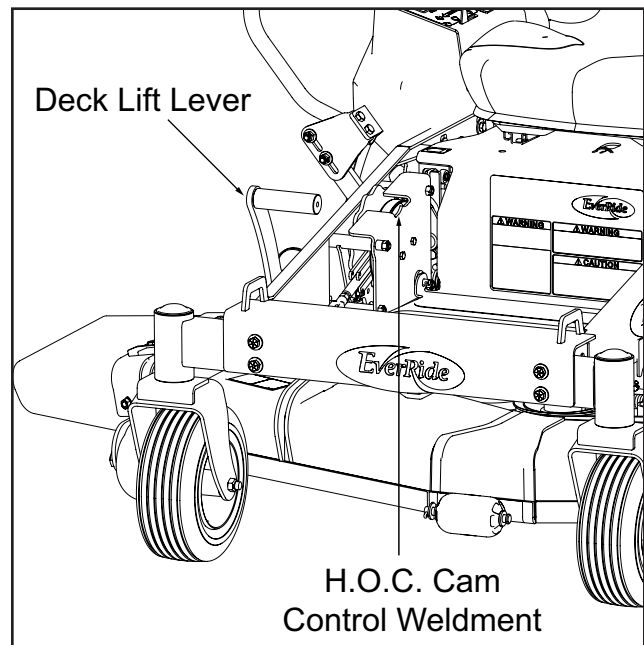
CUTTING HEIGHTS:

The mower can be adjusted to mow from 1.5 inches to 5.5 inches (38-76 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 = 1.5" to 3" (38-76 mm)
Field Cutting = 3" to 5.5" (76-140 mm)

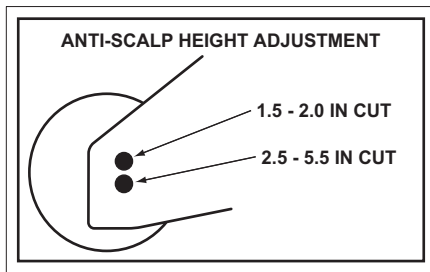
ADJUSTING MOWER HEIGHT OF CUT



1. Raise the mower deck by depressing the deck lift lever as far as possible.
2. Hold the deck in the up position and rotate the height of cut control cam to the desired height of cut.
3. Once the cam is on the correct height of cut, release the foot peg.

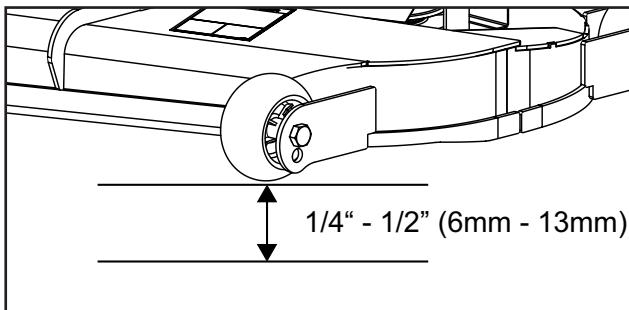
ANTI-SCALP WHEEL ADJUSTMENT

1. Raise the mower by pushing down on the deck lift lever and put the HOC cam into the 5.5" height of cut.
2. Place the motion control arms in the park position.
3. Set the anti-scalp adjustment to coincide with the height of cut which was chosen. To adjust the anti-scalp rollers, remove the 5/8-11 x 4.25 bolts and reinstall the bolts back in the appropriate hole for the desired height of cut. See illustration for correct hole information.



4. Depress the deck raise lever and put the mower into the desired height of cut.
5. 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.

27 - PARTS

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, Drive - 48" Deck	191378
Belt, Drive - 52" Deck	191379
Blades, Mower - 48" Deck	191107
Blades, Mower - 52" Deck	191108
Discharge Shield	191559
Shield, LH Deck Belt	191163
Shield, RH Deck Belt	191164
Spindle Assembly - 48"	191517
Spindle Assembly - 52"	191500
Spring, Extension - Deck Tension	356473
Wheel, Gauge - 5.0"	191201

Common Tractor Parts

Item	Part No.
Air Filter, Primary - Kawasaki	181071
Air Filter, Secondary - Kawasaki	181072
Air Filter, Briggs & Stratton	191630
Pre-Cleaner, Briggs & Stratton	191632
Belt, Hydraulic Pump Drive	191199
Cable, Choke	180273
Cable, Throttle	181296
Dampener, Steering Control	180231
Engine Oil Filter - Kawasaki	181073
Engine Oil Filter - Briggs & Stratton	191631
Fuel Filter	181060
Fuel Tank Cap	181251
Hydraulic Oil Filter	180909
Hydraulic Oil Reservoir Cap	191600
Key, Ignition	105684
Pump Cooler Fan	191621
Solenoid, Starter	180640
Switch, Ignition	180620
Switch, Safety	191256
Switch, PTO Engagement	136574
Switch, Seat Safety	181074
Wheel Fork Weldment	191575
Wire Harness	191200

LUBRICATION AND PERIODIC MAINTENANCE

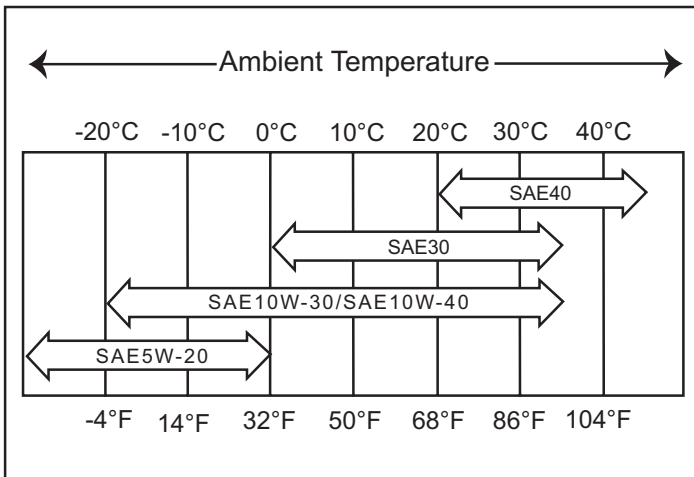
SPECIFICATIONS AND CAPACITIES

Engine Oil

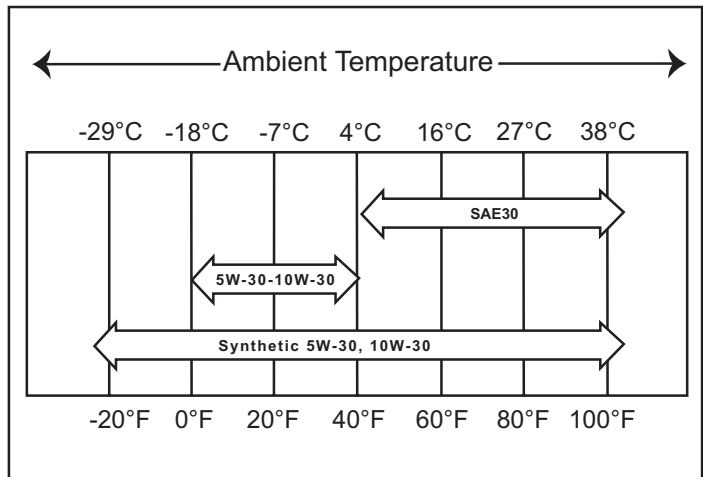
Use the appropriate SAE viscosity. Oil must meet or exceed; API Service "SF", "SG", "SH", or "SJ" requirements.

Capacity (Crankcase and Filter)..... 1.8 U.S. qts. (1.7 L) Kawasaki
 1.9 U.S. qts. (1.8 L) Briggs & Stratton

Recommended Viscosity:



Kawasaki 19-23 H.P.



Briggs & Stratton 25 H.P.

Note: For best results, use SAE30 oil whenever operating the unit at temperatures above 40 degrees in Brigg's and Stratton engines.

Recommended Change Interval

Initial Oil and Filter Change..... 8 hours
 Oil and Filter Change, Thereafter..... Every 100 hours Kawasaki Engines
 Briggs & Stratton Oil Change..... Every 50 hours
 Briggs & Stratton Oil Filter Change..... Every 100 hours

Fuel Tank

Capacity..... 11.83 U.S. gals. (44.8 liters)
 Fuel Recommended..... Unleaded 87 Octane or Greater

29 - LUBRICATION AND MAINTENANCE

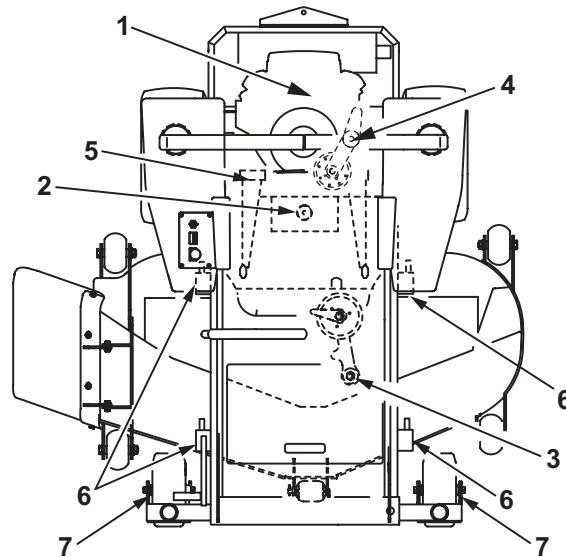
Hydraulic System

Capacity.....	1 gal. (3.8 liters)
Recommended Oil Viscosity.....	SAE 20W-50
Initial Hydraulic Oil and Filter Change.....	50 hours
Hydraulic Oil and Filter Change, Thereafter.....	300 hours

Grease Fittings

Grease Interval (All fittings).....	See Chart Below
Recommended Grease.....	NLGI No. 2 Lithium Complex, Min. drop point of 280° C

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	ENGINE OIL LEVEL	DAILY
2	HYDRAULIC FLUID LEVEL	DAILY
3	DECK BELT TENSIONER	25 HOURS
4	PUMP BELT IDLER	25 HOURS
5	PUSH LINK PIVOTS (2)	40 HOURS
6	LIFT LINK PIVOTS (4)	40 HOURS
7	FRONT WHEEL AXLES(2)	40 HOURS

PERIODIC MAINTENANCE SCHEDULE

Recommended Interval, Each:

Day	25 hr	50 hr	100 hr	250 hr	Item To Check	Action Required
.					All controls, switches	Inspect and repair
.					Hoses, fan belt, wiring	Inspect and repair
.					Grease fittings	Lubricate
.					Engine oil level	Check and replenish
(*)			.		Engine oil and filter - Kawasaki	Replace
(*)		.			Engine oil and filter - Briggs & Stratton	Replace
.					Hydraulic oil level	Check and replenish
		(*)		.	Hydraulic oil & filter	Replace
.					Air screens	Clean off debris
.					Air cleaner dust ejector	Clean
	.				Air cleaner - pre cleaner - Briggs & Stratton	Service air cleaner
[.]				.	Air cleaner elements - Kawasaki	Inspect, clean or replace
[.]		.			Air cleaner cartridge - Briggs & Stratton	Inspect and clean
[.]			.		Air cleaner cartridge - Briggs & Stratton	Inspect and replace
.					Fuel tank level	Refill to full level
.			.		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 propped in place with a block of wood or similar material before performing any maintenance on the mower.
- CAUTION:** The seat can come down very quickly once the seat 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 propped in the upright position before beginning service on the mower.

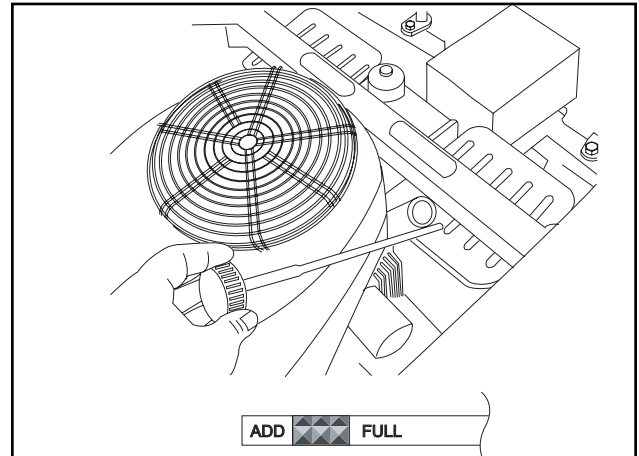
To lower the seat back down, remove the prop and lower the seat slowly back into contact with the frame.

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

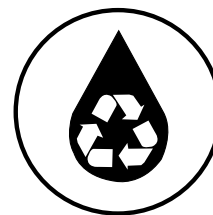
before removing it. Remove the dipstick and check that the oil level is between the upper limit and the lower limit on the dipstick. Wipe off dipstick, momentarily reinstall in engine (WITHOUT TURNING IT) and check oil level again. Add oil as necessary to achieve the desired level. **DO NOT OVERFILL.** 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.

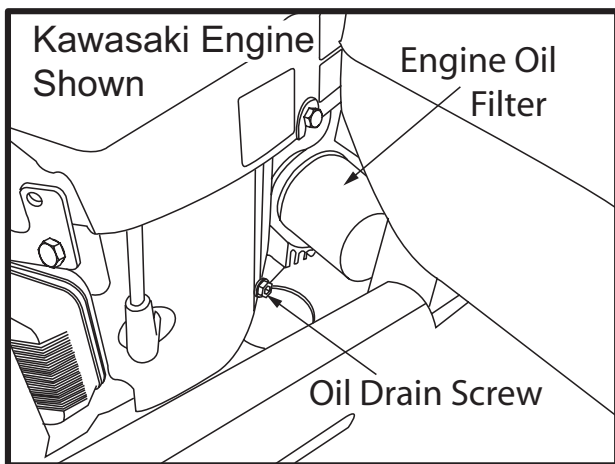
CHANGING THE ENGINE OIL



- 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.

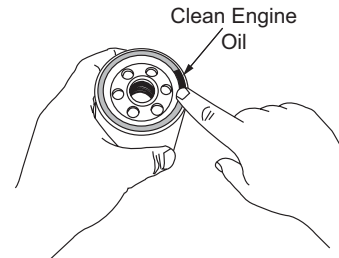
OIL FILTER CHANGE

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.**

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


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


INSTALLING THE BATTERY


1. Insert the battery (1) in the tray with the negative post on the right side and positive post on the left side.
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.
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.

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 PTO engagement 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 prop 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.
5. Remove the rubber strap securing the battery in place.
6. Carefully remove the battery using caution to avoid touching the terminal posts on any metal parts.

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" on the prior page)
2. Check the electrolyte level.

NOTE: It is only necessary to check the electrolyte level on batteries that are not maintenance free.

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. 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 relay block. Both are 20 amp fuses.

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.

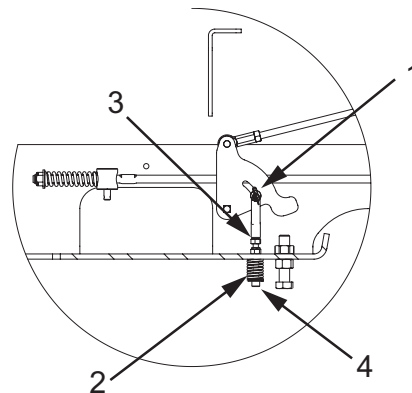
NOTE: If the machine does not pass either of these tests, **DO NOT OPERATE THE UNIT.** Take it to your EverRide Servicing Dealer.

ELECTRIC CLUTCH STOP CHECK

Start the engine and run at full RPM. Engage the mower PTO. Allow the engine RPM to stabilize and then disengage the PTO. The mower blades should stop turning in less than 7 seconds. If they do not stop within 7 seconds, take the mower to the dealer for service immediately.

NEUTRAL ADJUSTMENT

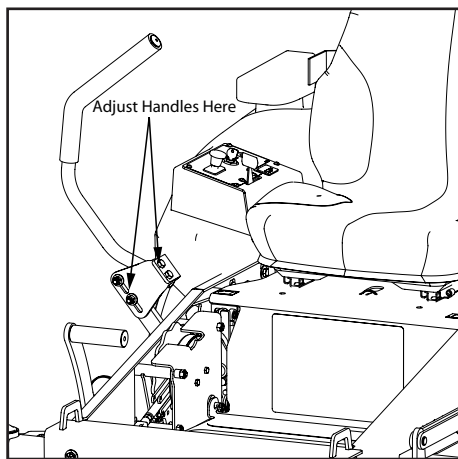
Before making any adjustments, be sure to check the tire air pressure. Incorrect air pressure can cause the unit to pull to one side. The correct air pressure is 15 p.s.i. in the front wheels and 12 p.s.i. in the rear.



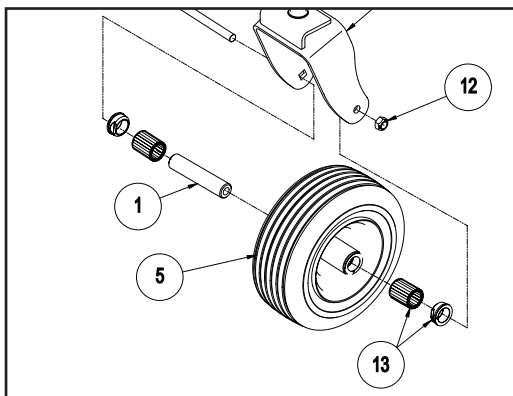
1. Stop the engine and remove the ignition key.
2. Tilt the seat forward.
3. Move the control lever rearward and release the control lever. This control lever should return to a position where the control lever can be swung outward and lock in the neutral outward position without moving the control lever forward or rearward.
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 (1) and start putting pressure on the spring (2).
5. If adjustment is needed, loosen the nut against the yoke (3) and while applying slight rearward pressure on the motion control lever, turn the head of the adjustment bolt (4) in the appropriate direction until the lever is centered.

37 - LUBRICATION AND MAINTENANCE

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.
7. After both sides have been adjusted, the handles can be aligned by loosening the hardware on the handles in the locations shown below.



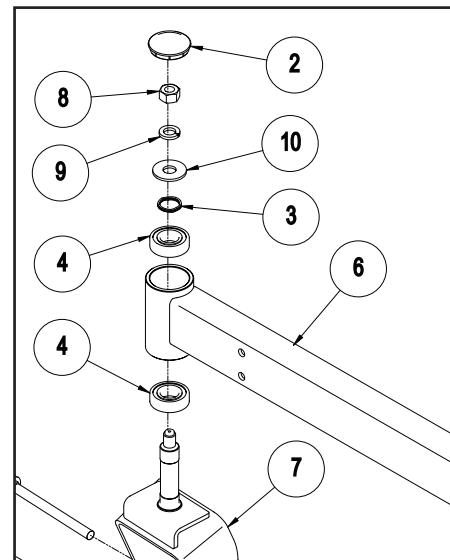
SERVICING THE CASTER WHEEL ROLLER BEARINGS



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 lock nut, bolt and wheel assembly from the wheel fork assembly.
4. Remove the bushings, 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 5/8 hex nut (8), the 5/8 flat washers (10) and lock washers (9), spiral washers (3) and the front wheel weldment (7).

- Clean and inspect the bearings. Replace the bearings if needed.

NOTE: The bearings are press fit. Be sure to press only on the outer race.

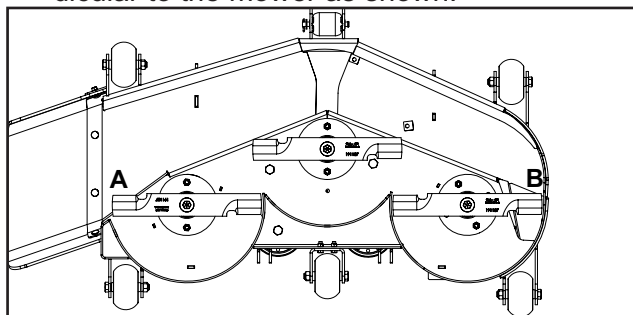
- Reinstall the 5/8 flatwasher, 5/8 lockwasher, spiral washer and secure in place using the 5/8 hex nut removed prior.
- Reinstall the cap.

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.

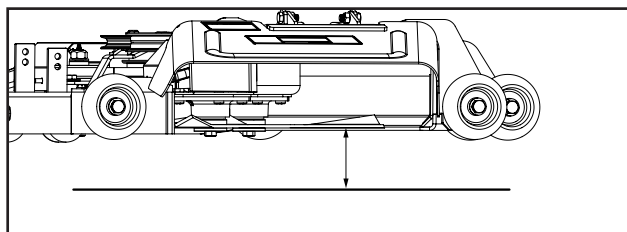
- Set the front tire pressure to 15 p.s.i. and the rear tire pressure to 12 p.s.i.
- Place the mower on a level surface.
- Raise the mower deck to the highest position and adjust the cut height to 3 inches.
- Lower the deck back to cut position.
- Set both of the outside blades to be perpendicular to the mower as shown.



- 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.
- 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 1/8" 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

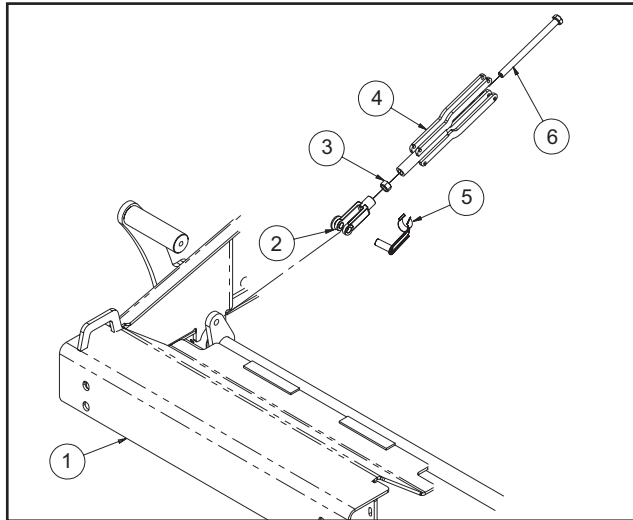


CAUTION: Stop the engine, put the motion control arms in the park position and remove the key from the ignition before performing any maintenance or repairs on this unit.

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

- Raise the mower deck to the highest 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.
- Loosen the 1/2 jam nut (4) from the 1/2 adjustable yoke (2). Pull the 1/2" clevis spring pin (5) out of the adjustable yoke. If the blade height is higher than the height of cut dial, tighten the yoke onto the 1/2-13 x 4.5" bolt which runs through the height of cut index arm weldment (4). If the blade height is lower than the height of cut dial, then loosen the yoke on the 1/2-13 x 4.5" bolt.

NOTE: Set the height of cut to the front tip of the center blade.



3. Tighten the 1/2 jam nut back down to lock it into position.
4. Raise the deck back to the highest position 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 from the reverse position.

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.

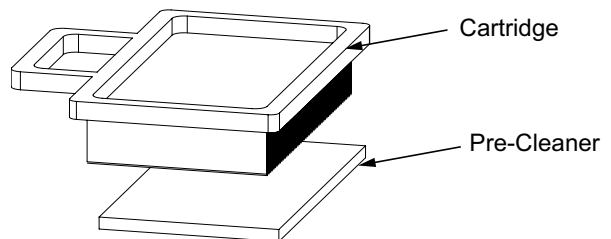
ENGINE AIR CLEANER SERVICE

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.

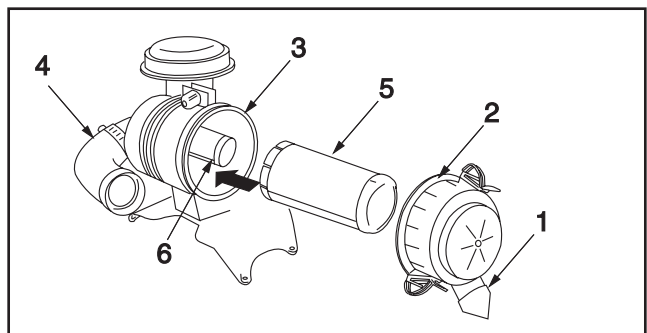
BRIGGS & STRATTON AIR CLEANER SERVICE



The air cleaner is top feed, so it is necessary to pull the air cartridge and pre-cleaner completely out to inspect the unit.

Reference the Briggs & Stratton operating and maintenance instructions for information on removal, cleaning and inspection.

KAWASAKI AIR CLEANER SERVICE



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.

Inspect the secondary cartridge. If there is dust inside the air inlet, this indicates a leaking gasket or that the cartridge may need serviced more often.

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.

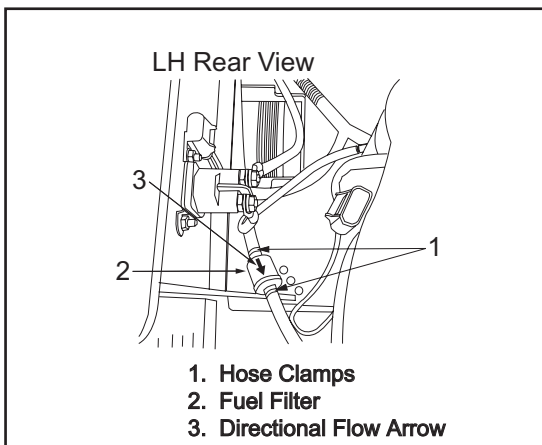
IMPORTANT: Special care should be taken when the fuel lines are removed for maintenance or repair. Close both ends of the fuel line with a piece of paper or a clean cloth to prevent dust or dirt particles from contaminating the fuel. Even a small amount of dust or dirt can cause premature wear or failure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

41 - LUBRICATION AND MAINTENANCE

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. Cut the flow to the fuel filter by pinching the hose.
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.

CHECK VALVE SERVICE

There is not a tank select valve on the Hornet mower. There is a fuel check valve that has

been installed that will allow even dispersal of fuel between the two tanks. The check valves are intended only to fuel transfer from one tank to another.

To check functionality of check valves, fill one tank and leave the other empty. The tanks should remain at the same level for one hour. Check the other tank after using the fuel from the full tank.

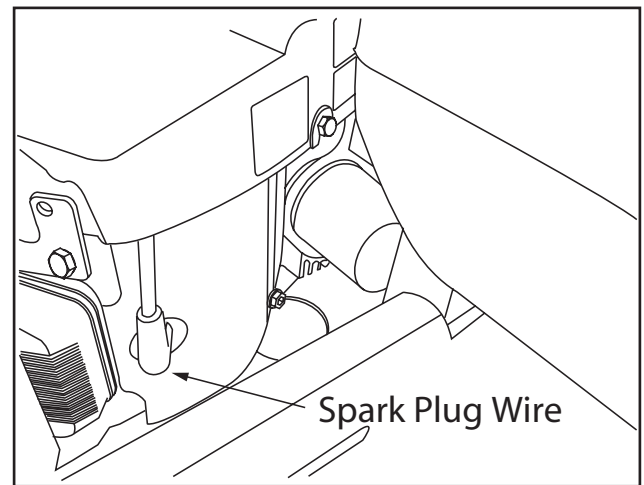
SPARK PLUG SERVICE



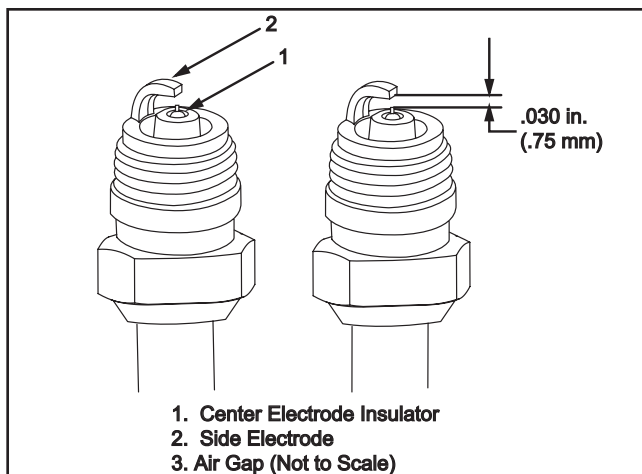
WARNING: Hot Engine components can cause severe burns. Stop engine and allow it to cool before checking the spark plugs.

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

1. Disconnect the spark plug wire leads and remove the spark plugs.



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 carburation 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 29. Tighten all fasteners to the recommended torque, as shown on the Bolt Torque Chart on page 47.
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.

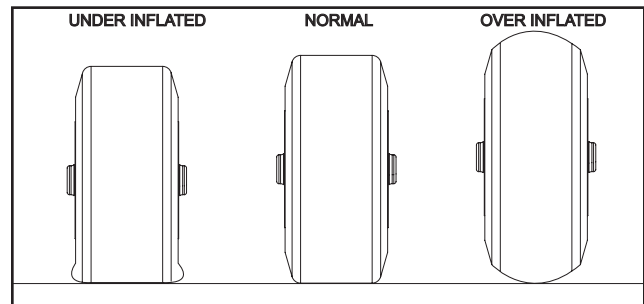
⚠ WARNING: Drain fuel in a well ventilated area away from any source of flame or sparks, including any appliances with a pilot light.

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

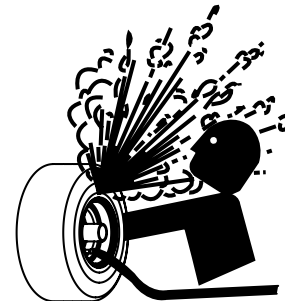
1. Clean every part of the engine thoroughly.
2. Be sure the key switch is in the "OFF" position.
3. Put a pan under the fuel valve to receive the drained fuel and open the fuel valve to drain the fuel from the fuel tank completely.
4. Reinstall the sediment bowl.
5. Gasoline is a toxic substance. Dispose of gasoline properly. Contact your local authorities for approved disposal methods.
6. Put a pan under the carburetor and loosen the drain screw of the carburetor to drain the fuel completely.
7. Tighten the drain screw.
8. 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.
9. Wipe the engine body with an oily cloth.
10. 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 15 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.

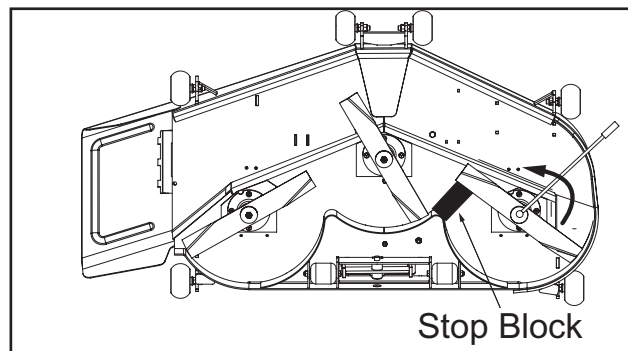
CAUTION: The blades may be sharp. Wear gloves or wrap them in a towel before handling them.

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.

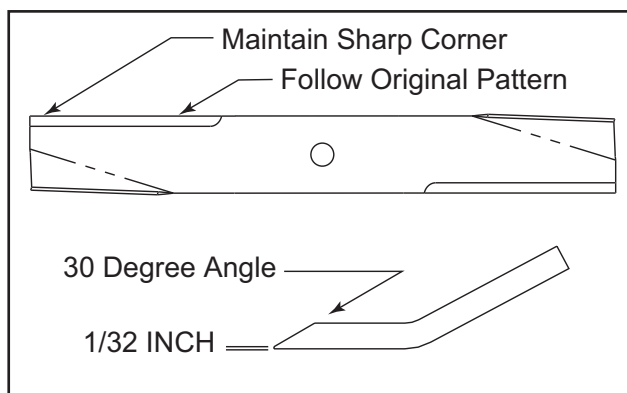
WARNING: Never try to straighten a blade which has been bent or try to weld a blade that is cracked. Always replace with a new blade to assure safety.

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



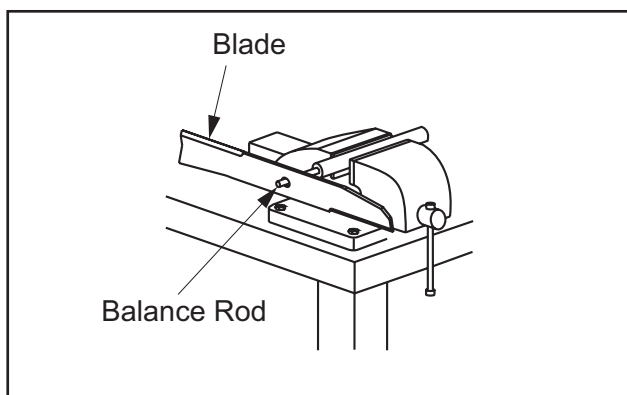
CAUTION: Always wear safety eye protection when sharpening the blades.

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.



After sharpening, install the blades back onto the mower deck. Make sure the wings are facing up. Reinstall the blade bolt and lockwasher and torque the blade bolt to 110 ft. lbs.

CLEANING GRASS BUILDUP FROM DECK

⚠ CAUTION: Before cleaning grass build-up, 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 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

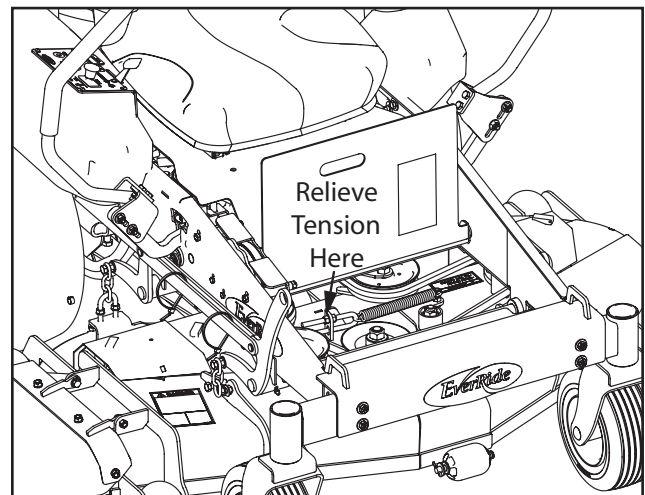
debris, and make sure all belt guards are in place, before mowing.

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.

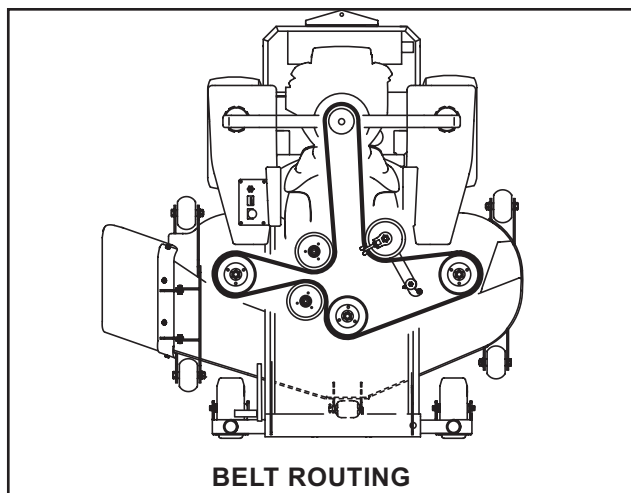
DRIVE BELT R & R

⚠ 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.

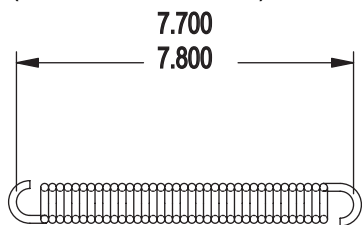
1. Raise the floor pan. Loosen tension on the belt by loosening the two 3/8-16 nuts on the u-bolt for the tension arm. Roll the drive belt off the idler pulley.



2. Install a new drive belt, making sure it is routed according to the decal on the bottom of the floor pan.



3. Tighten the 3/8-16 nut until the length of the spring, inside hook to inside hook is 7.7-7.8 inches (196 mm - 198 mm).



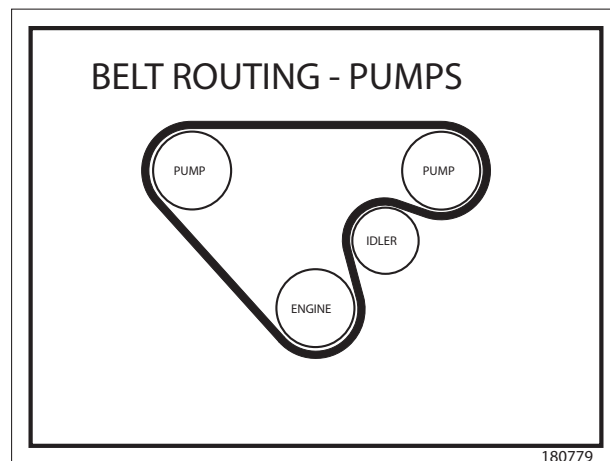
NOTE: Make sure the belt keeper is positioned in the correct location. The point of the belt keeper should be retained in the slot located in the tensioner arm.

4. Lower the floor pan.

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 using a 3/8" breaker bar in the square hole on the tension arm. 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 is pressure on the arm.
5. Slide the belt off of the pump pulley. The belt will have to be slid above the pump 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 pump 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. Reinstall the deck belt drive on the clutch and make sure it is routed properly on all pulleys.
10. Re-tension the deck belt idler using the deck belt tension explanation on page 45.
11. Reattach the negative battery cable.

47 - BOLT TORQUE CHART

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.

Fastener Size	SAE Grade 5			
	lbs.-ft.		N-m	
	Lubricated	Dry	Lubricated	Dry
1/4-20	7	9	9	12
5/16-18	15	20	20	27
3/8-14	30	35	41	47
7/16-14	45	55	61	75
1/2-13	60	80	81	108
9/16-12	100	120	136	163
5/8-11	130	170	176	231
3/4-10	220	300	298	407

Fastener Size	Metric Class 8.8 or 9.8			
	lbs.-ft.		N-m	
	Lubricated	Dry	Lubricated	Dry
M8	17	20	23	27
M10	34	40	46	54
M12	55	70	75	95
M14	90	110	122	149
M16	145	175	197	237
M20	280	350	380	475

NOTE: "Lubricated" means coated with a lubricant such as engine oil. "Dry" means plain or zinc plated without any lubrication.

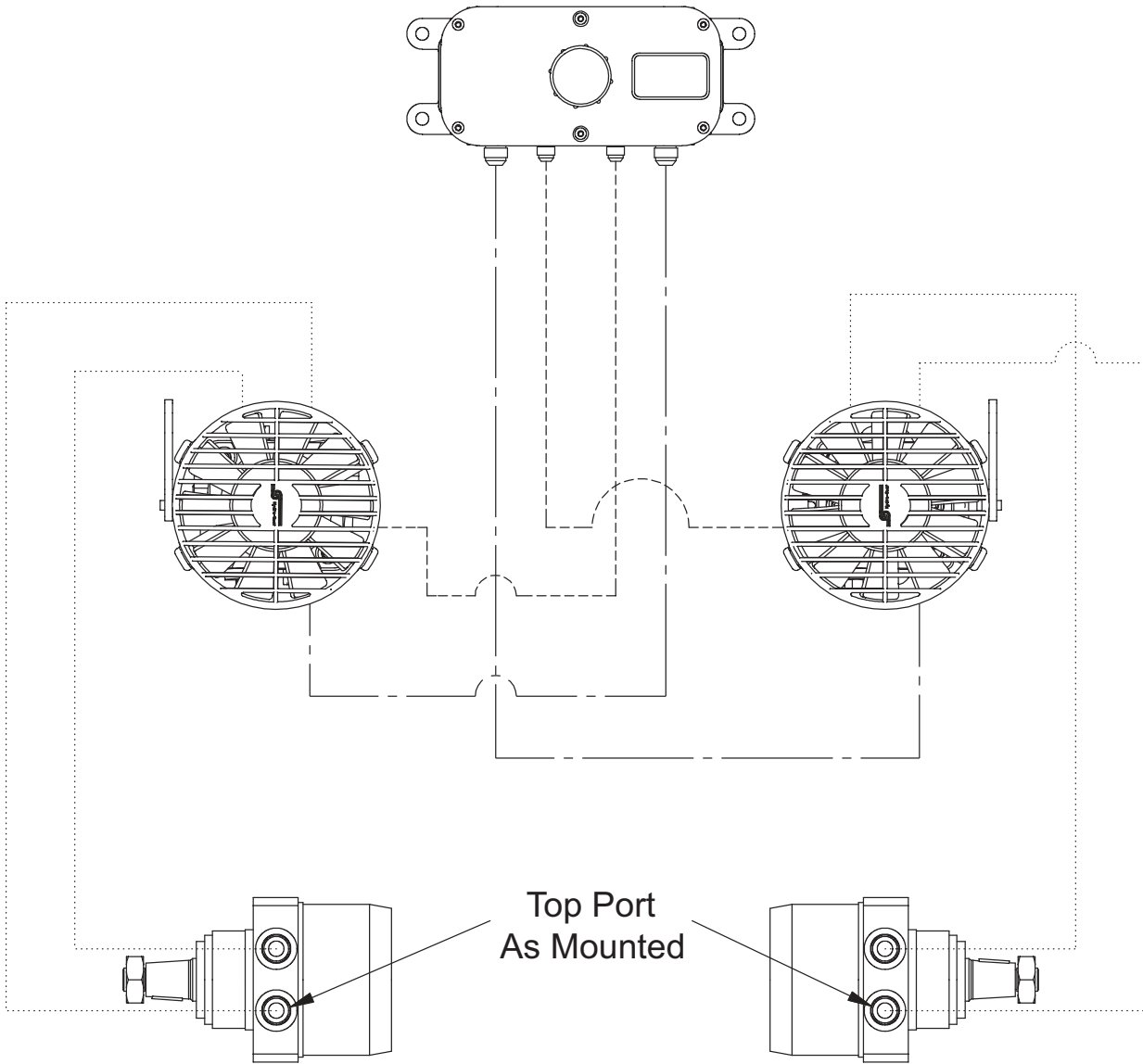
IMPORTANT:

Torque values SHOULD NOT be followed when fastening plastic parts!

SPECIAL FASTENER TORQUES

Mowing Blade Retaining Bolt - Grade 8 (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)
Hub Retaining Nuts.....	350-450 ft. lbs. (475-610 N•m)

Routing To The Filter Is Internal To H draulic Tank



- High Pressure
- Charge Pump Inlet
- Case Drain

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.

SYMPTOM	PROBLEM	CORRECTION
Excessive Vibration.	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 44.
	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	Replace Bearings.	
Uneven Cutting Height.	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 p.s.i. to 12 p.s.i rear and 15 p.s.i. front.
	Blade spindle bent.	Contact Dealer.
Ground speed too fast	Cut at slower speed.	
Blades Wear Too Fast.	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.
Not Cutting Clean.	Blades dull.	Sharpen or replace blades.
	Blades installed upside down.	Install blades correctly.
	Blade RPM too low.	Use full throttle position.

51 - MOWER TROUBLESHOOTING GUIDE

	Mower deck not level.	See cutting heights (page 25). Tires under inflated (12 p.s.i. rear and 15 p.s.i. front).
	Mower tires mashing grass.	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.
Streaking or Windrow Conditions in Swath.	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. Operate at slower speeds.
Blades Don't Rotate.	Deck belt is worn, loose or broken. Deck belt off pulley. Clutch not operating.	Install new deck belt. Reinstall deck belt. Inspect. Replace if necessary.
Mower Loads Power Unit.	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.
Excessive Noise.	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.	

POWER UNIT TROUBLESHOOTING GUIDE - 52

SYMPTOM	PROBLEM	CORRECTION
Engine Idling Poorly	Carburetor adjusted incorrectly. Improper spark plug gap.	Readjust carburetor. Check and re-gap plugs.
Engine Backfires	Carburetor adjusted incorrectly.	Contact dealer.
Engine Runs But Won't Move	Drive belt loose or broken. Hydrostatic reservoir oil low. Pump bypass valve open. Hydrostatic oil filter plugged. Damaged pump or motor.	Tighten or replace the drive belt. Refill reservoir. Put in closed position. Replace filter. Contact dealer.
Power Unit Loses Power or Hydrostat System Overheats	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.
Loss of Power or System Will Not Operate in Either Direction	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.
Engine Overheating	Air intake screen clogged. Cooling fins clogged.	Service air intake screen. Clean fins.
Engine Stalling While Blades are Engaged	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.
Low Engine Oil Pressure	Low oil level. Oil diluted or too light.	Add oil. Change oil and locate source of contamination.
High Oil Consumption	Improper Oil Viscosity. Numerous other possible causes.	Use SAE30 oil whenever possible Contact dealer.
Engine Will Not Turn Over	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.

53 - MOWER UNIT TROUBLESHOOTING GUIDE

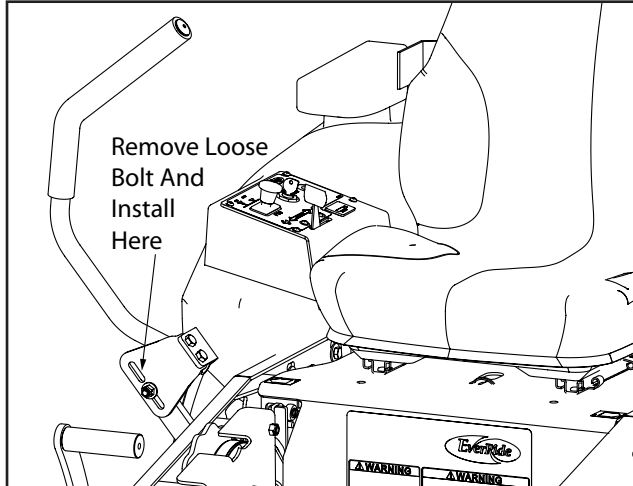
SYMPTOM	PROBLEM	CORRECTION
Engine Turns Over But Doesn't Start - There Is a Spark At Plug	No fuel or line plugged. Bad fuel solenoid. Fuel valve turned off. Dirt in fuel filter. Dirt, water, or stale fuel. Incorrect fuel in fuel system. Choke is not on.	Fill tank or replace line. Contact dealer. Turn fuel valve on. Replace fuel filter. Contact dealer. Drain tank and replace with proper fuel. Move choke lever to on.
Engine Turns Over But Doesn't Start - No Spark at Plug	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.
Power Unit Jerky When Starting or Operates in One Direction Only	Motion control linkage needs adjustment. Hydrostatic pump failure. Wheel motor failure. Bypass valve open.	Contact dealer. Contact dealer. Contact dealer. Close bypass.
Power Unit Creeps When Motion Control Arms are in Neutral	Motion control linkage needs adjustment.	Contact dealer.
Power Unit Circles or Veers	Motion control linkage needs adjustment. Hydrostatic pump failure. Wheel motor failure. Tires improperly inflated.	Contact dealer. Contact dealer. Contact dealer. Adjust front tire pressure 15 p.s.i. and rear tires to 12 p.s.i.
Abnormal Vibration	Engine mounting bolts loose. Loose engine pulley. Engine pulley damaged.	Torque engine bolts. Tighten pulley. Contact dealer.

SETUP INSTRUCTIONS

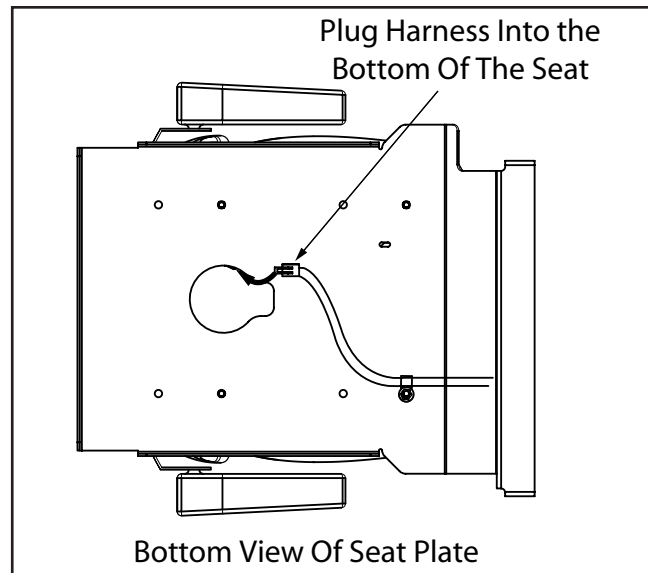
EverRide mowers are shipped partially assembled. After uncrating the power unit and mower deck, initial setup is required.

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. Carefully set the seat aside for later installation.
2. The motion control arms have been lowered during packaging. Remove the loose 3/8-16 x 1.50 bolts from the handles and reinstall them in the location shown.



3. Remove the 5/16 flat washers and locknuts from the four studs protruding from bottom of the seat.
4. Route the seat switch end of the wiring harness up through the seat plate. Plug the harness into the seat switch located on the bottom of the seat.



5. Connect the seat to the seat plate by sliding the 5/16 studs through the seat plate and secure it in place using the 5/16 flat washer's and locknuts removed in step 3. The front left stud requires the installation of a P-Clip which was slid over the harness during assembly. Route the harness as shown.

Continue with installation instructions located in the Operator's & Parts Manual.

BATTERY INSTALLATION

The battery supplied with your EverRide Hornet 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.

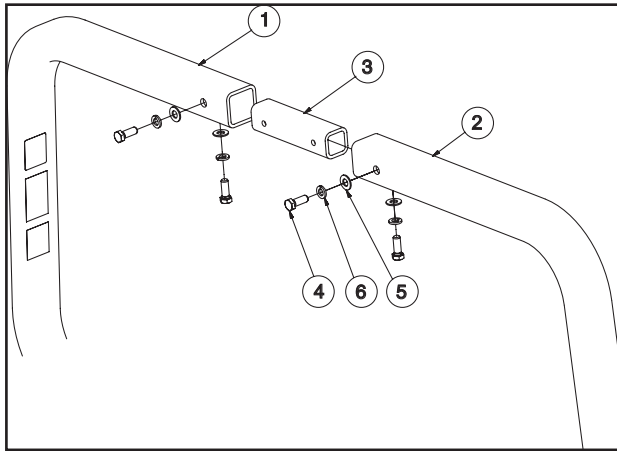
HYDRAULIC OIL SERVICE

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 non-detergent motor oil.

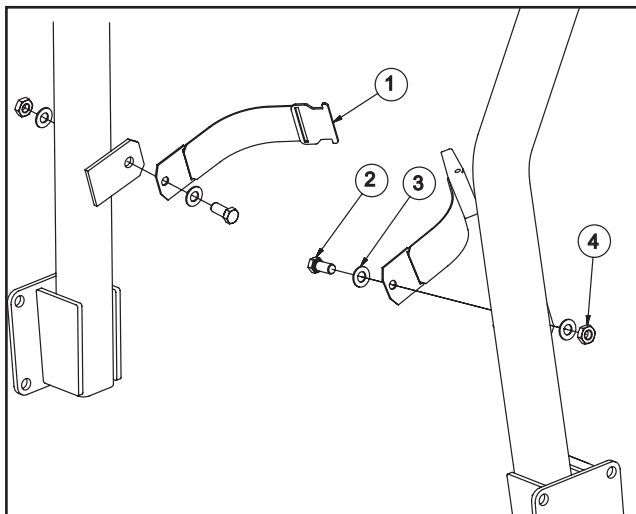
ASSEMBLING THE FIXED FULL VISION ROPS

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

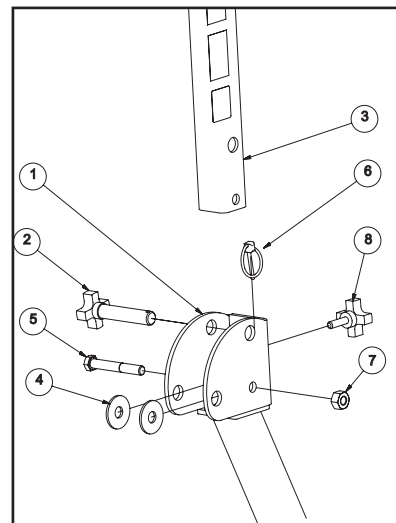


Assemble the seat belt to the ROPS by inserting the 7/16-20 x 1 hex bolt through a 7/16 flat washer, through the seat belt and through the ROPS weldment. Secure with a 7/16 flat washer and a 7/16-20 lock nut.

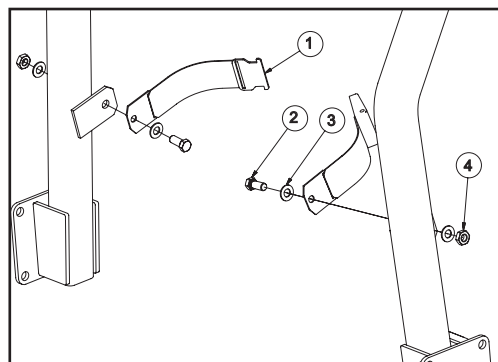


ASSEMBLING THE FOLDING FULL VISION ROPS

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 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.



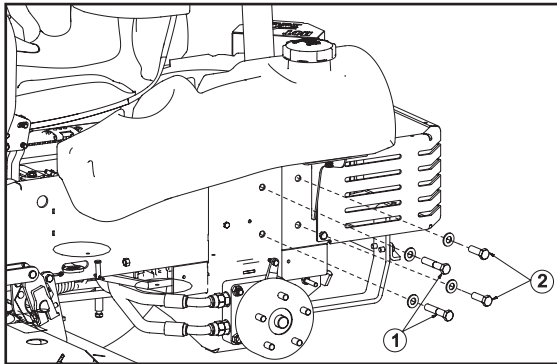
Assemble the seat belt to the ROPS by inserting the 7/16-20 x 1 hex bolt through a 7/16 flat washer, through the seat belt and through the ROPS weldment. Secure with a 7/16 flat washer and a 7/16-20 lock nut.



ATTACHING THE FULL VISION ROPS TO THE MOWER

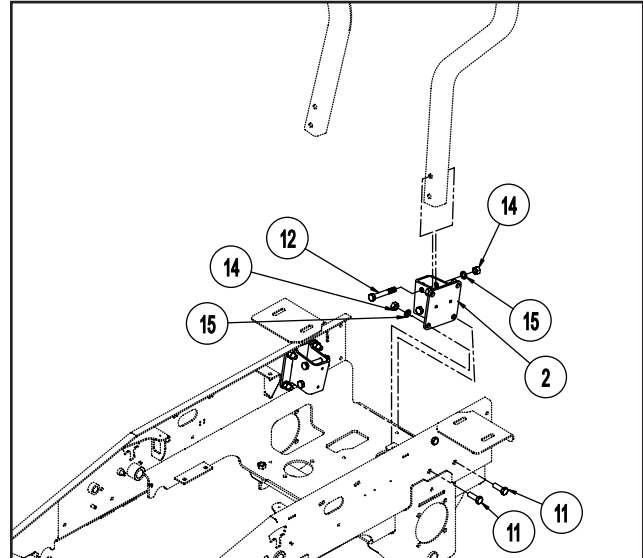
Using a hoist or a jack, raise the rear of the tractor off of the ground. Insert floor jacks under the axle to support the weight of the tractor. Remove the five lug nuts securing the wheel to the wheel hub.

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 for grade 5 hardware in the torque chart on page 47.

ATTACHING THE FEMCO 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.

Install the LH ROPS mount pocket (2) to the inside of the mainframe above the wheel motor, with the pocket tipped outward at the top. Loosely secure with four 1/2-13 x 1 1/2 bolts (11) and retain with 1/2" lockwashers (15) and 1/2-13 standard hex nuts (14). **DO NOT TORQUE.** Repeat for the RH ROPS mount pocket.

Raise and place the ROPS posts into the pockets. Loosely install 1/2-13 x 3 1/2 bolts (10) through the pockets and ROPS posts and retain with 1/2 inch lockwashers (13) and standard 1/2-13 hex nuts (14).

If a folding ROPS is to be installed, the top must be installed so it tips rearward.

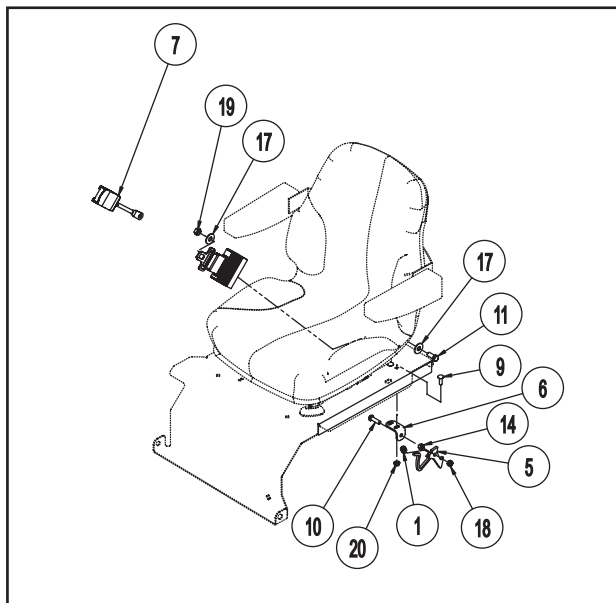
Torque all hardware using the torque values for grade 5 hardware in the torque chart on page 47.

57 - MOWER ASSEMBLY INSTRUCTIONS

Reinstall the rear wheels to the wheel hub and lower the mower back to the ground.

NOTE: Both the folding and fixed ROPS will come with a 181592 star knob. It is only used with the folding ROPS.

ATTACHING THE SEAT LATCH & SEAT BELT FOR FEMCO ROPS



Install the Hook Latch (5) by inserting a 3/8-16 x 1.25 Hex Bolt (10) through the Latch Bracket (6) through a 3/8-16 hex nut (14), and through the latch bracket (5). Secure with a 3/8-16 crown locknut.

Install the Hornet Mower seat latch assembly by first inserting two 5/16-18 x 1 carriage bolts down through the predrilled holes in the seat plate and through the latch bracket (6). Slide the compression spring (1) between the seat plate and the small tooth on the latch bracket (5). Secure the 5/16 carriage bolts with 5/16-18 whiz locknuts (20).

Install the seat belt bracket ends to the mounts on either side of the seat, just below the arm rest hinge points. Insert a 7/16-14 x 1 bolt (11) through a 7/16 flat washer (17), through the seat bracket

and through the seat belt bracket (7). Secure with a 7/16 flatwasher (17) and 7/16-14 crown locknut (19).

NOTE: The retractable seat belt should be installed on the LH side of the seat to eliminate interference with the console.

Torque all hardware using the torque values for grade 5 hardware in the torque chart on page 47.

EVERRIDE HORNET MOWER
Engine

Manufacturer	Kawasaki™ Model FH680V Kawasaki™ Model FH601V Briggs & Stratton™ Model Intek™ 440000
Type	V-Twin Air Cooled 4-Stroke OHV
Displacement	41.2 Cubic Inch (675 cc) Kawasaki
Horsepower	23 H.P. Kawasaki 19 H.P. Kawasaki 25 H.P. Briggs & Stratton
Maximum Torque	39.8 ft. lbs. Kawasaki 23 H.P. 37.0 ft. lbs. Kawasaki 19 H.P. 32.5 ft. lbs. Briggs & Stratton 25 H.P.
Maximum Recommended Speed	3600 RPM
Bore	2.96 in. (75.2 mm) Kawasaki 3.12 in. (79.2 mm) Briggs & Stratton
Stroke	2.99 in. (76 mm) Kawasaki 2.89 in. (73.4 mm) Briggs & Stratton
Cylinders	Two - V-Twin
Crankcase Capacity	1.8 Quart (1.7 Liters) Kawasaki
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	13 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-2.5 Clutch Brake
PTO Blade Brake	Dry Single Disk

Dimensions

Overall Width Without Mower Deck	45.7 inches (116.1 cm)
Overall Length With Hitch	72.7 inches (184.7 cm)
48" Weight w/ mower deck & std. ROPS	1021 pounds (467 kg)
52" Weight w/ mower deck & std. ROPS	1029 pounds (444 kg)
Fixed ROPS Weight (Standard) **	66 pounds (30 kg)
Folding ROPS Weight (Optional) **	72 pounds (34 kg)
Overall Height w/o ROPS	47 inches (119.3 cm)
Wheelbase	46 inches (116.8 cm)
Minimum Ground Clearance	5 inches (12.7 cm)

59 - SPECIFICATIONS

Hydrostatic Drive System

Steering	Two Motion Control Arms
Transmission	Two Axial Piston Pumps & Two Fixed Wheel Motors
Travel Speed	
Forward	Zero to 10 mph (14.5 km/h)
Reverse	Zero to 4 mph (0 - 6.44 km/h)
Tires	
Rear Drive Tires,	23 x 10.5-12 - 4 Ply Turf Tread
Front Caster,	11 x 4-5 - 6 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	Integrated Steering Lever Actuated Disc Brakes

Mower Deck

	52 Inch	48 Inch
Style	High Volume Tunnel Deck	
Dimensions		
Width - Discharge Up	53.6 inches (136.1 cm)	48.5 inches (123.2 cm)
Depth	4.1 to 5.6 inches (10.4-14.2 cm)	
Thickness	Full 7 Gauge Welded Construction	
Deck Lift	Foot Operated Spring Assist	
HOC Adjustment	Dial Gauge	
Cutting Height	(1/4 inch Increments) 1.5 to 5.5 inches (3.8 - 14.0 cm)	
Mowing Blades		
Tip Speed @ 3600 RPM	18,900 fpm (5760 m/min)	18,800 fpm (5730 m/min)
Length	18 inches (45.7 cm)	16.5 inches (41.9 cm)
Thickness	.203 inches (5.16 mm)	
Number of Blades	Three	

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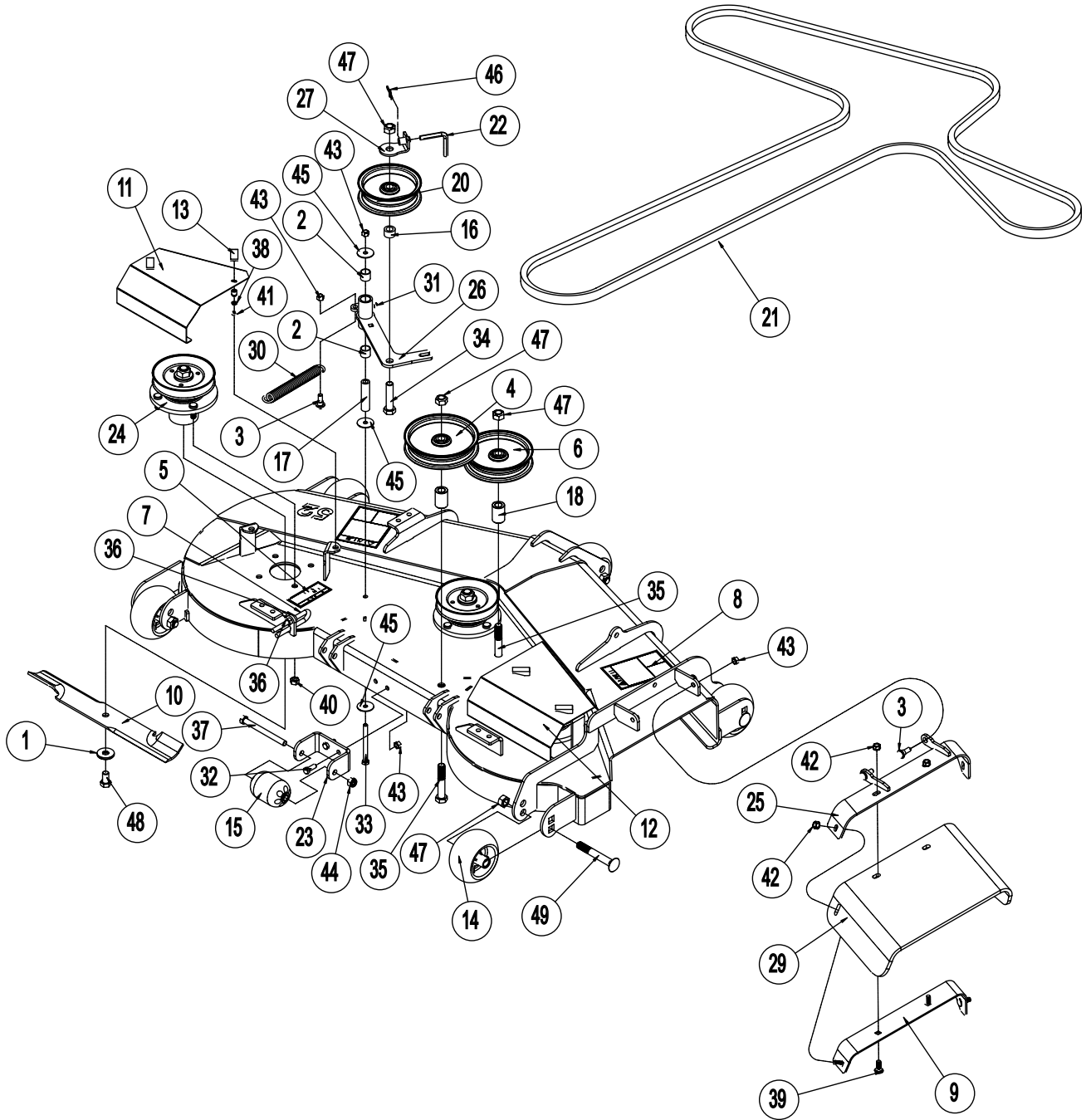
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EverRide reserves the right to change, modify, or eliminate from time to time, for technical or other reasons, certain or all data, specifications, or equipment of the product, or the products themselves, without any liability or obligation.

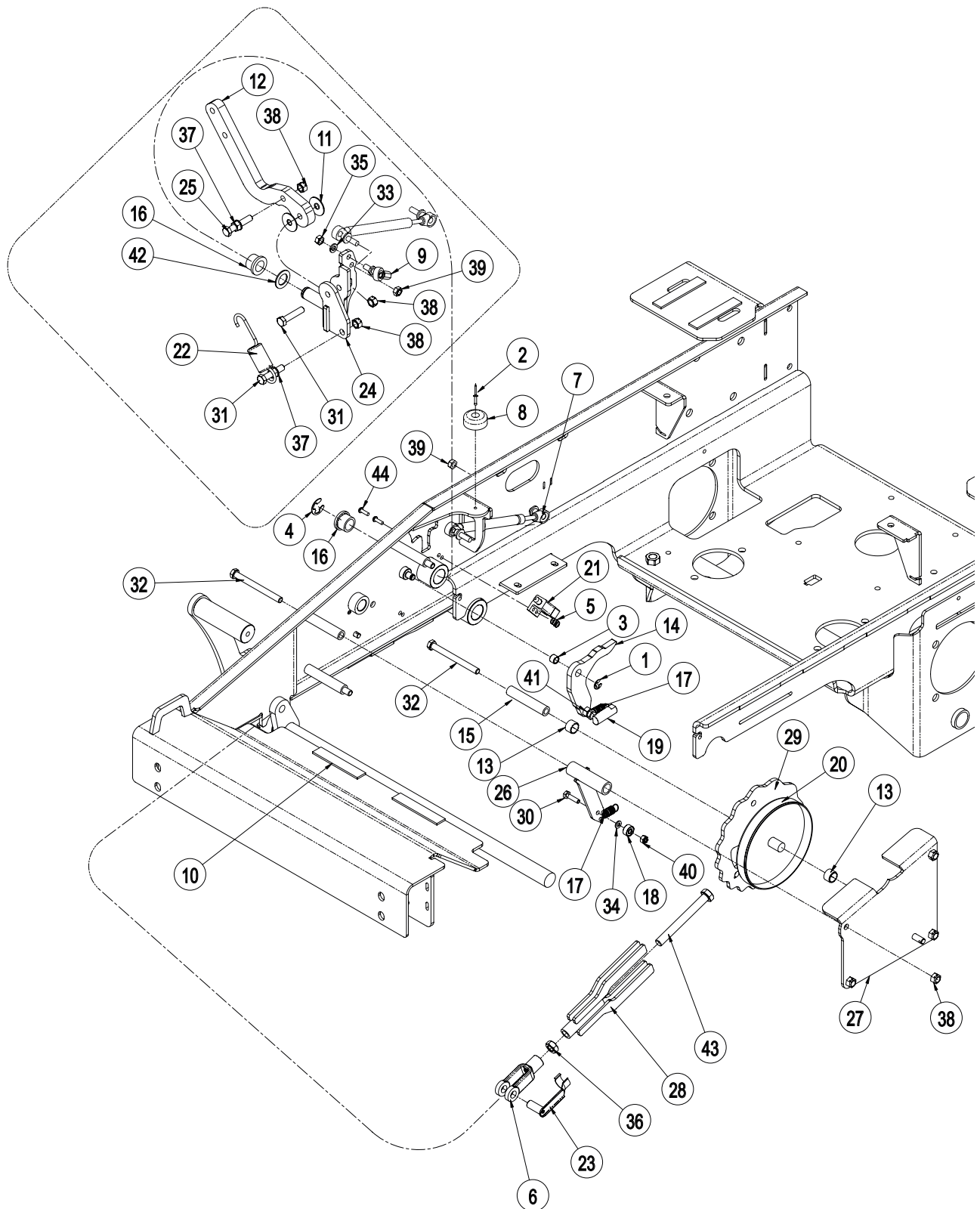
61 - MOWER DECK GROUP



MOWER DECK GROUP - 62

ITEM	PART NO	QTY	DESCRIPTION
1	103906	3	WASHER, M14 X M40 X M4.5 FLAT Y
2	105546	2	BRG, SLV .753 X .878 X .750
3	135139	3	BOLT, 1/2 X 1.06 X 3/8-16 SLD 5 Y
4	140280	1	PULLEY, FLAT 6.00 X .635 W/BRG
5	160169	2	DECAL, WARNING - SHIELD
6	161955	1	PULLEY, FLAT 5.50 X .635 W/BRG
7	181194	1	U-BOLT, RD .63 X 4.50 X 3/8-16 SP Y
8	181258	2	DECAL, DANGER - DECK
9	191098	1	PLATE, DISCHG SHIELD SUPPORT
10	191108	3	BLADE, 18.000 LO-LIFT - 52" DECK
	191107	3	BLADE, 16.500 LO-LIFT - 48" DECK
11	191163	1	SHIELD, LH ZTM BELT
12	191164	1	SHIELD, RH ZTM BELT
13	191165	4	LATCH, 12-24 SOUTHCO
14	191201	5	WHEEL, GAUGE Ø5.00 X 2.75 SYM
15	191226	1	WHEEL, GAUGE Ø2.56 X 3.94 SYM
16	191255	1	BUSHING, .688 X 1.13 X .625
17	191347	1	TUBE, .750 X .438 X 3.047
18	191355	2	BUSHING, .688 X 1.13 X 1.68
19	191370	1	DECAL, DECK 52"
	191369	1	DECAL, DECK 48"
20	191374	1	PULLEY, FLAT 5.00 X .635 W/BRG
21	191379	1	BELT, B144K SPECIAL - 52" DECK
	191378	1	BELT, B138K SPECIAL - 48" DECK
22	191381	1	BELT KEEPER, 90° W/HOLE
23	191486	1	BRACKET, ANTI-SCALP
24	191500	3	ASSY, SPINDLE BALL BRG - 52" DECK
	191517	3	ASSY, SPINDLE BALL BRG - 48" DECK
25	191531	1	WLDT, DISCHARGE SHIELD BRACKET
26	191533	1	WLDT, DECK BELT TENSIONER 48" - 52"
	191579	1	WLDT, DECK BELT TENSIONER 52" PRIOR TO S/N 649410312
27	191537	1	WLDT, BELT KEEPER
28	191611	1	WLDT, 52Z DECK S/O
	191610	1	WLDT, 48Z DECK S/O
29	191559	1	SHIELD, RUBBER DISCHARGE
30	356473	1	SPRING, EXT .910 X .177 X 6.15 Y
31	959994	1	FTG, 1/4-28 TPR 45 GREASE ZERK
32	960046	2	BOLT, 3/8-16 X 1.00 HEX 5 Y
33	960058	1	BOLT, 3/8-16 X 4.00 HEX 5 Y
34	960160	1	BOLT, 5/8-11 X 2.75 HEX 5 Y
35	960163	2	BOLT, 5/8-11 X 3.50 HEX 5 Y
36	960502	2	NUT, 3/8-16 STD HEX GR5 Y
37	961343	1	BOLT, M12 X 1.75 X 130 HEX 8.8 Y
38	961701	4	WASHER, M6 REG FLAT Y
39	963020	4	BOLT, 3/8-16 X 1.00 CRG 5 Y
40	964005	12	NUT, 7/16-20 HEX GR5 Y
41	964014	4	LOCKNUT, 12-24 NYLOC Y
42	964016	4	LOCKNUT, 3/8-16 WHIZ Y
43	964022	6	LOCKNUT, 3/8-16 CROWN Y
44	964044	1	LOCKNUT, M12 X 1.75 NYLOC Y
45	964502	3	WASHER, .375 X 1.50 X .063 FLAT Y
46	967356	1	RING, RUE .625 x .072 x 1.690
47	967392	8	LOCKNUT, 5/8-11 CROWN Y
48	967397	3	BOLT, 9/16-12 X 1.00 HEX 8 Y
49	968088	5	BOLT, 5/8-11 X 4.50 CRG Y

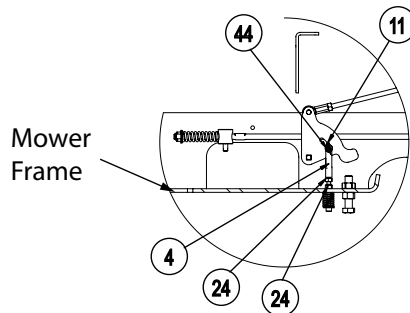
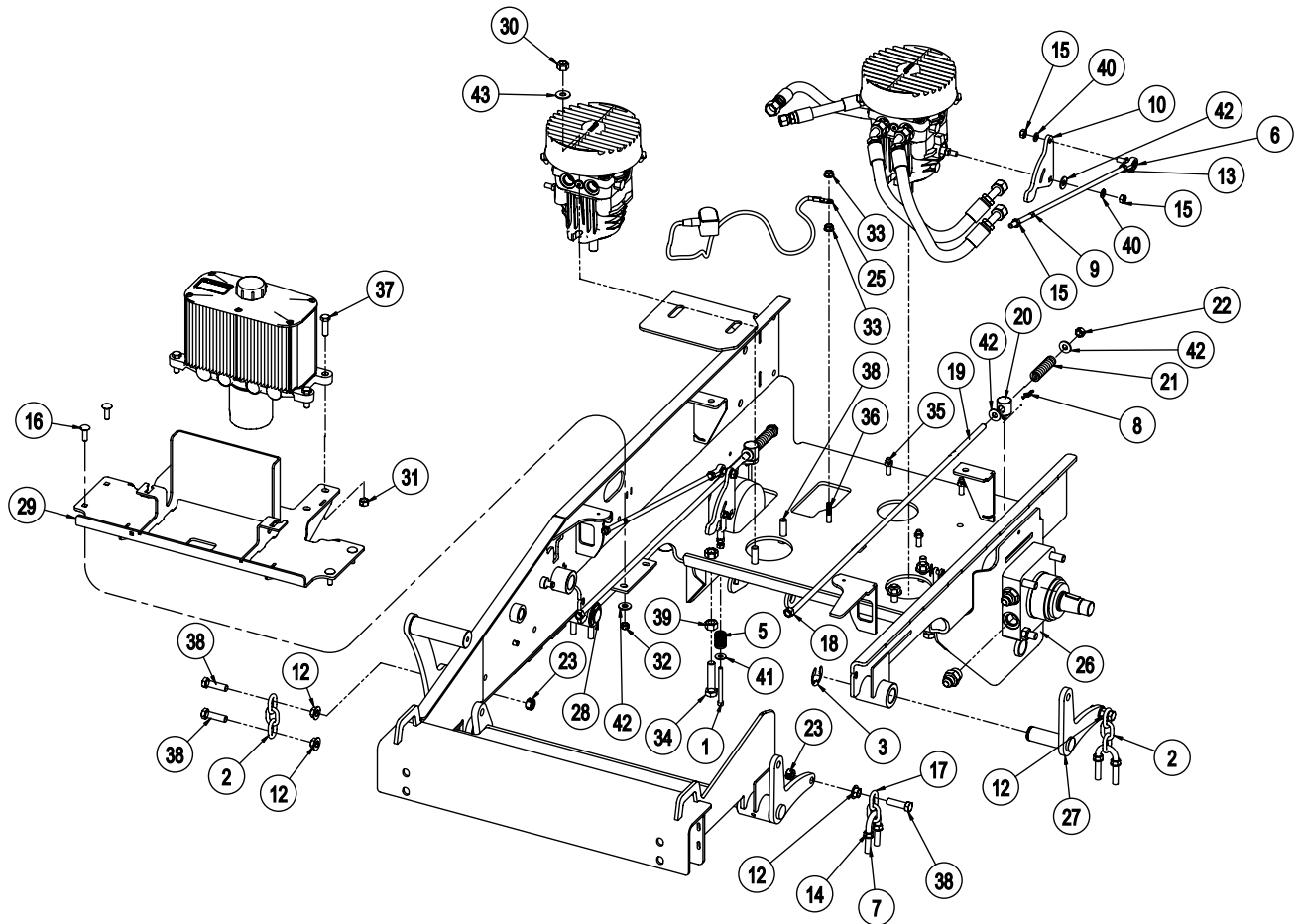
63 - HANDLE & HEIGHT OF CUT ASSEMBLY



HANDLE & HEIGHT OF CUT ASSEMBLY - 64

ITEM	PART NO	QTY	DESCRIPTION
1	967358	2	E-RING, .375 X .035
2	968100	2	RIVET, 3/16 X .500 POP
3	103380	2	BEARING, SLV .377 X .503 X .375
4	130886	2	E-RING, .750 X .050
5	130923	4	NUT, 10-24 KEPS
6	161897	1	YOKE, ADJUSTABLE 1/2-13
7	180231	2	DAMPENER, STEERING CONTROL
8	180390	2	BUMPER, RUBBER .625 X 1.50 DIA
9	180606	2	BALL JOINT, RH 5/16 FMAL W/STD
10	180897	6	FOAM, .125 X .750 X 4.00
11	180961	4	WASHER, .400 X 1.27 X .062 NYLON
12	191082	2	PLATE, STEERING CONTROL
13	191298	2	BRG, SLV .627 X .752 X .500 BRNZ
14	191137	2	PLATE, BRAKE LEVER
15	191151	4	SPACER, .63 X .385 X 3.250
16	191179	4	BRG, FLG .750 X 1.00 X .750 BRNZ
17	191183	3	SPRING, EXT .500 X .041 X 1.75 SS
18	191185	1	BRG, BAL .250 X .688 X 313
19	191186	2	BALL JOINT, 3/8X24
20	191208	1	DECAL, HOC INDEX
21	191256	2	SWITCH, PLUNGER DP - N.O. - N.C.
22	191261	2	SPRING, EXT .980 X .162 X 4.00 B
23	191295	1	PIN, CVS SPG 1/2" YOKE SPEC
24	191510	1	WLDT, LH STEERING CONTROL
	191513	1	WLDT, RH STEERING CONTROL
25	967390	2	BOLT, 3/8-16 X 2.00 HEX 5 FLTD Y
26	191527	1	WLDT, HOC INDEX ARM
27	191528	1	WLDT, HOC COVER
28	191532	1	WLDT, HOC LINK
29	191617	1	WLDT, HOC CAM CONTROL S/O
30	960002	1	BOLT, 1/4-20 X 1.00 HEX 5
31	960049	4	BOLT, 3/8-16 X 1.75 HEX 5
32	960058	4	BOLT, 3/8-16 X 4.00 HEX 5
33	960601	2	WASHER, .313 MED SPRG LOCK
34	961701	1	WASHER, M6 REG FLAT
35	964003	2	NUT, 5/16-24 STD HEX GR5
36	964011	1	NUT, 1/2-13 JAM GR5
37	964016	4	LOCKNUT, 3/8-16 WHIZ
38	964022	10	LOCKNUT, 3/8-16 CROWN
39	964047	4	LOCKNUT, M8-1.25 CROWN
40	964048	1	LOCKNUT, 1/4-20 NYLOC
41	967054	2	NUT, 3/8-24 STD HEX GR5
42	967061	2	BUSHING, MACH .750 X 1.25 X .075 Y
43	967189	1	BOLT, 1/2-13 X 4.50 HEX 8
44	967340	4	SCREW, 10-24 X .625 PAN PHL MAC

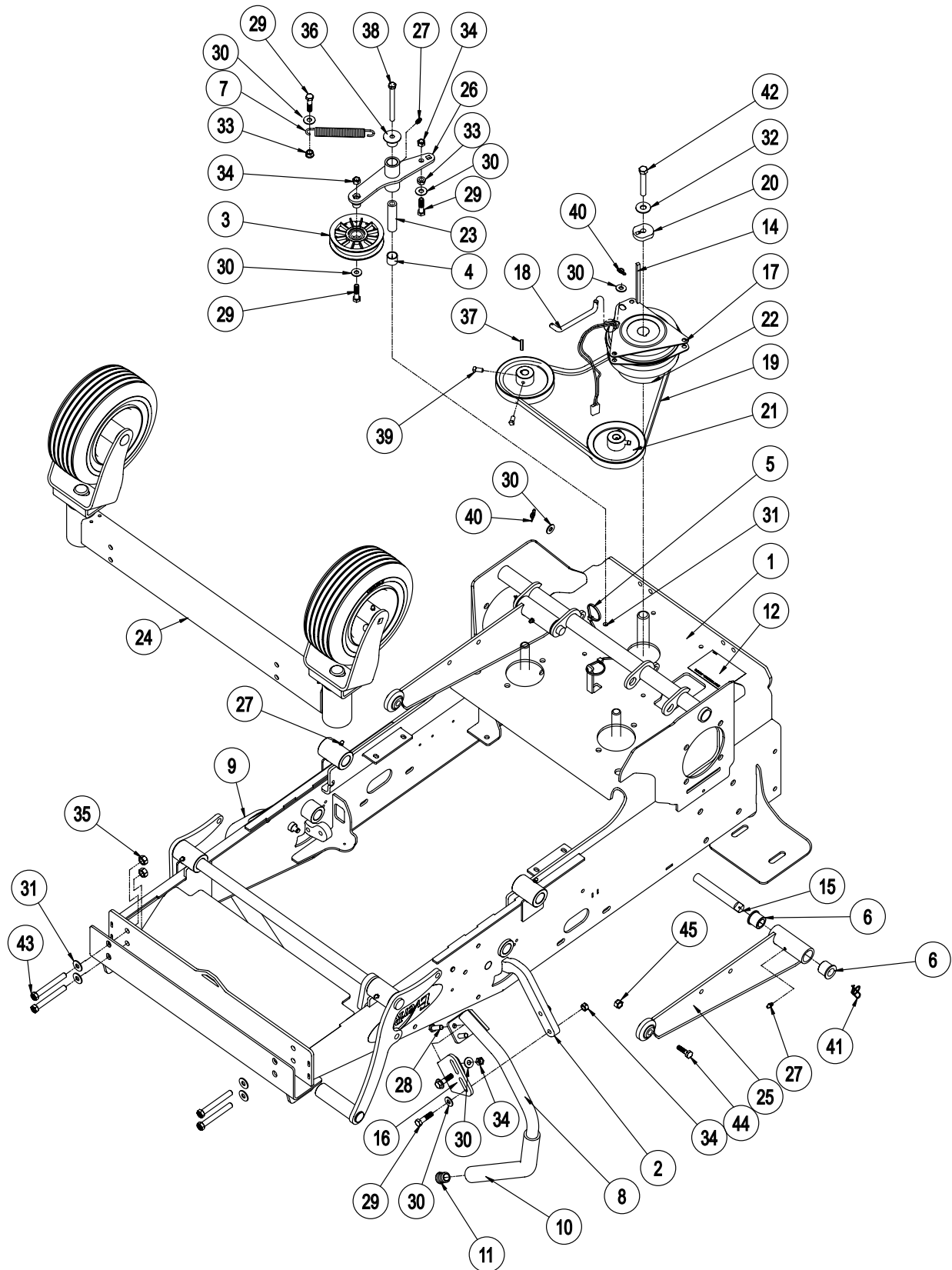
65 - LINKAGE COMPONENTS



LINKAGE COMPONENTS - 66

ITEM	PART NO	QTY	DESCRIPTION
1	967393	2	BOLT, 1/4-20 X 2.75 SOC 8
2	150109	3	CHAIN - 3 LINKS
3	180922	2	E-RING, 1.00 X .050
4	180956	2	YOKE, 1/4-20 RH ADJUSTABLE
5	180957	2	SPRING, COM .784 X .092 X 1.50
6	180982	2	BALL JOINT, LH 5/16 FMAL W/STD
7	181017	3	U-BOLT, RD 1.00 X 2.50 X 3/8-16
8	967353	2	RING, RUE .375 x .054 x 1.254
9	191080	2	ROD, PUMP CONTROL HORNET
10	191081	2	PLATE, PUMP CONTROL ARM HORNET
11	967350	2	RING, RUE .250 x .041 x .844
12	967342	5	LOCKNUT, 7/16-14 WHIZ
13	967338	2	NUT, 5/16-24 HEX GR5 LH
14	964016	6	LOCKNUT, 3/8-16 WHIZ
15	964003	6	NUT, 5/16-24 STD HEX GR5
16	963074	4	BOLT, 5/16-18 X 1.00 CRG 2
17	191129	1	CHAIN, 2 LINKS 1/4"
18	967054	2	NUT, 3/8-24 STD HEX GR5
19	191175	2	ROD, BRAKE
20	191176	2	PIN, BRAKE LINKAGE
21	191177	2	SPRING, COM .710 X .142 X 2.50
22	964066	2	LOCKNUT, 3/8-24 CROWN
23	964061	4	LOCKNUT, 7/16-14 CENTER
24	964048	4	LOCKNUT, 1/4-20 NYLOC
25	191227	1	CABLE, BATTERY - 35" GROUND
26	191509	2	WLDT, WHEEL MOTOR PLATE
27	191511	1	WLDT, LH FRONT DECK LIFT
28	191512	1	WLDT, RH FRONT DECK LIFT
29	191516	1	WLDT, BATTERY/TANK PLATE
30	964025	4	LOCKNUT, 7/16-14 CROWN
31	964022	4	LOCKNUT, 3/8-16 CROWN
32	964021	7	LOCKNUT, 5/16-18 CROWN
33	964019	2	LOCKNUT, 5/16-18 WHIZ
34	473450	2	BOLT, 1/2-13X2 3/4 GR 2 Y
35	960025	3	BOLT, 5/16-18 X 1.50 HEX 5
36	960026	1	BOLT, 5/16-18 X 1.75 HEX 5
37	960047	4	BOLT, 3/8-16 X 1.25 HEX 5
38	960081	9	BOLT, 7/16-14 X 1.50 HEX 5
39	960504	2	NUT, 1/2-13 STD HEX GR5
40	960601	4	WASHER, .313 MED SPRG LOCK
41	960700	2	WASHER, .250 REG FLAT
42	960701	10	WASHER, .313 REG FLAT
43	960702	4	WASHER, .375 REG FLAT
44	962200	2	PIN, CVS .250 X 1.00 X .859

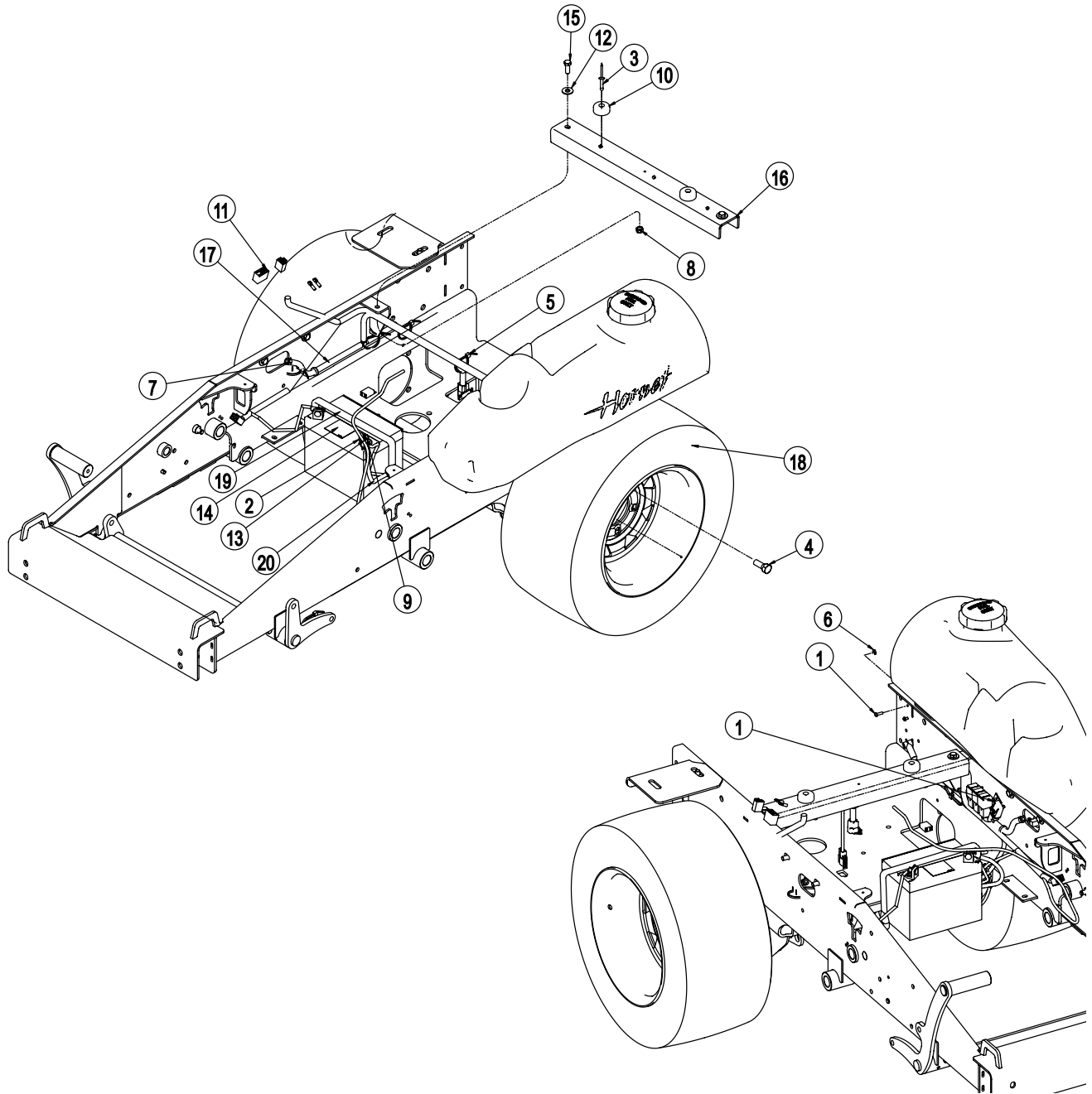
67 - CLUTCH & HANDLE ASSEMBLY



CLUTCH & HANDLE ASSEMBLY - 68

ITEM	PART NO	QTY	DESCRIPTION
1	191612	1	WLDT, FRAME AND DECK LIFT
2	191082	2	PLATE, STEERING CONTROL
3	103096	1	PULLEY, FLAT 4.00 X .670 W/BRG
4	105546	2	BRG, SLV .753 X .878 X .750
5	111910	2	CABLE TIE, .15 X 8.50
6	150079	4	BRG, FLG .750 X 1.13 X 1.00
7	110580	1	SPRING, EXT .875 X .125 X 4.25
8	181348	1	WLDT, LH STEERING HANDLE
9	181347	1	WLDT, RH STEERING HANDLE
10	180617	2	GRIP, FOAM
11	180639	2	PLUG, 7/8" END
12	180779	1	DECAL, BELT ROUTING - PUMPS
13	180954	2	DECAL, 9" EVERRIDE LOGO SM
14	180962	1	KEY, .250 X .250 X 4.62 SQ - KAWASAKI
	191196	1	KEY, .250 X .250 X 4.50 SQ - BRIGGS ENGINE
15	191048	2	PIN, MFG .625X5.38X4.88 XDRL Y
16	191083	2	PLATE, STEERING CONTROL BENT
17	191109	1	CLUTCH, ELECT - OGURA, GT2.5
18	191166	1	ROD, CLUTCH ANTIROTATION
19	191199	1	BELT, A46K ARAMID CORD
20	191203	1	WASHER, CLUTCH UNIVERSAL W/KEY
21	191265	2	PULLEY, V-BELT 5.00 X .591 W/KEY
22	191268	1	PULLEY, V-BELT 4.50 X 1.00 W/KEY
23	191347	1	TUBE, Ø.750 X Ø.438 X 3.047
24	191576	1	ASSY, FRONT AXLE
25	191577	2	WLDT, DECK PUSH LINK
26	191581	1	WLDT, PUMP BELT TENSIONER
27	959995	7	FTG, 1/4-28 STRGT GREASE ZERK
28	960047	4	BOLT, 3/8-16 X 1.25 HEX 5
29	960048	7	BOLT, 3/8-16 X 1.50 HEX 5
30	960701	11	WASHER, .313 REG FLAT
31	960702	5	WASHER, .375 REG FLAT
32	960703	1	WASHER, .438 REG FLAT
33	964016	2	LOCKNUT, 3/8-16 WHIZ
34	964022	12	LOCKNUT, 3/8-16 CROWN
35	964025	4	LOCKNUT, 7/16-14 CROWN
36	964502	1	WASHER, .375 X 1.50 X .063 FLAT
37	966058	2	KEY, M5 X M5 X M30 RD
38	960058	1	BOLT, 3/8-16 X 4.00 HEX 5
39	967343	4	SET SCREW, 5/16-18 X .625 SQ CUP
40	967353	2	RING, RUE .375 x .054 x 1.254
41	967357	2	RING, RUE .750 x .080 x 2.081
42	967394	1	BOLT, 7/16-20 X 2.75 HEX 5
43	967399	4	BOLT, 7/16-14 X 3.5 HEX 8
44	960117	2	BOLT, 1/2-13 X 2.25 HEX 5
45	964000	2	LOCKNUT, 1/2-13 CROWN

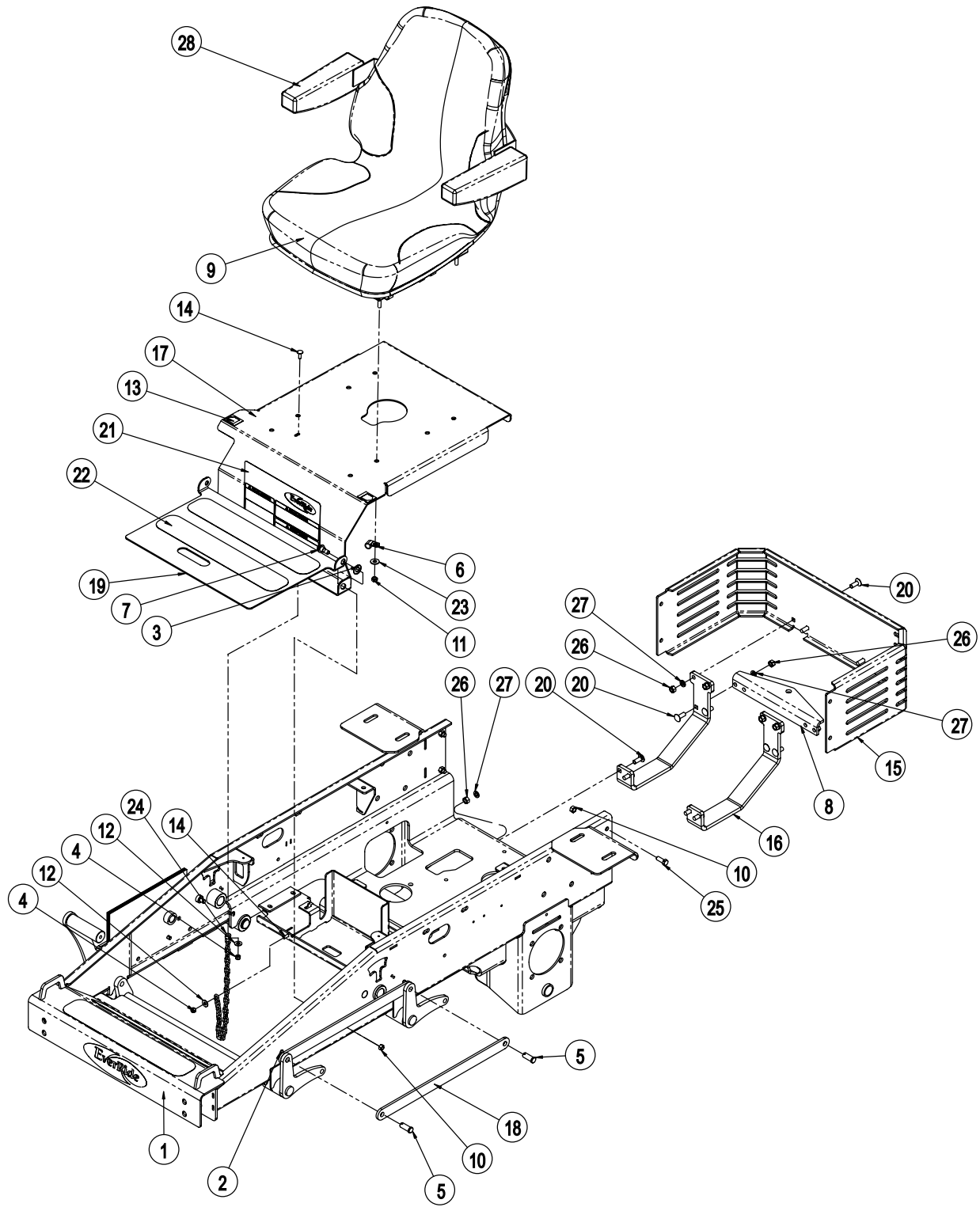
69 - BATTERY COMPONENTS



BATTERY COMPONENTS - 70

ITEM	PART NO	QTY	DESCRIPTION
1	967340	11	SCREW, 10-24 X .625 PAN PHL MAC
2	967152	2	BOLT, 5/16-18 X .750 CRG 5
3	968100	2	RIVET, 3/16 X .500 POP
4	967133	10	BOLT, 1/2-20 X 1.00 LUG
5	111910	9	CABLE TIE, .15 X 8.50
6	130923	5	NUT, 10-24 KEPS
7	130924	3	CLAMP, 1/2 SPRING HOSE
8	964022	2	LOCKNUT, 3/8-16 CROWN
9	960501	2	NUT, 5/16-18 STD HEX GR5
10	180390	2	BUMPER, RUBBER .625 X 1.50 DIA
11	191200	1	HARNESS, POWER UNIT WIRE
12	960702	4	WASHER, .375 REG FLAT
13	960601	2	WASHER, .313 MED SPRG LOCK
14	180996	1	DECAL, DANGER - BATTERY
15	960046	2	BOLT, 3/8-16 X 1.00 HEX 5
16	191289	1	PLATE, TOP CROSSMEMBER
17	191282	1	ASSY, HORNET FUEL LINE
18	191228	2	ASSY, TIRE & RIM - 23X10.50-12
19	181228	1	BAND, 15" RUBBER BUNGEE
20	191216	1	CABLE, BATTERY - 35" POSITIVE

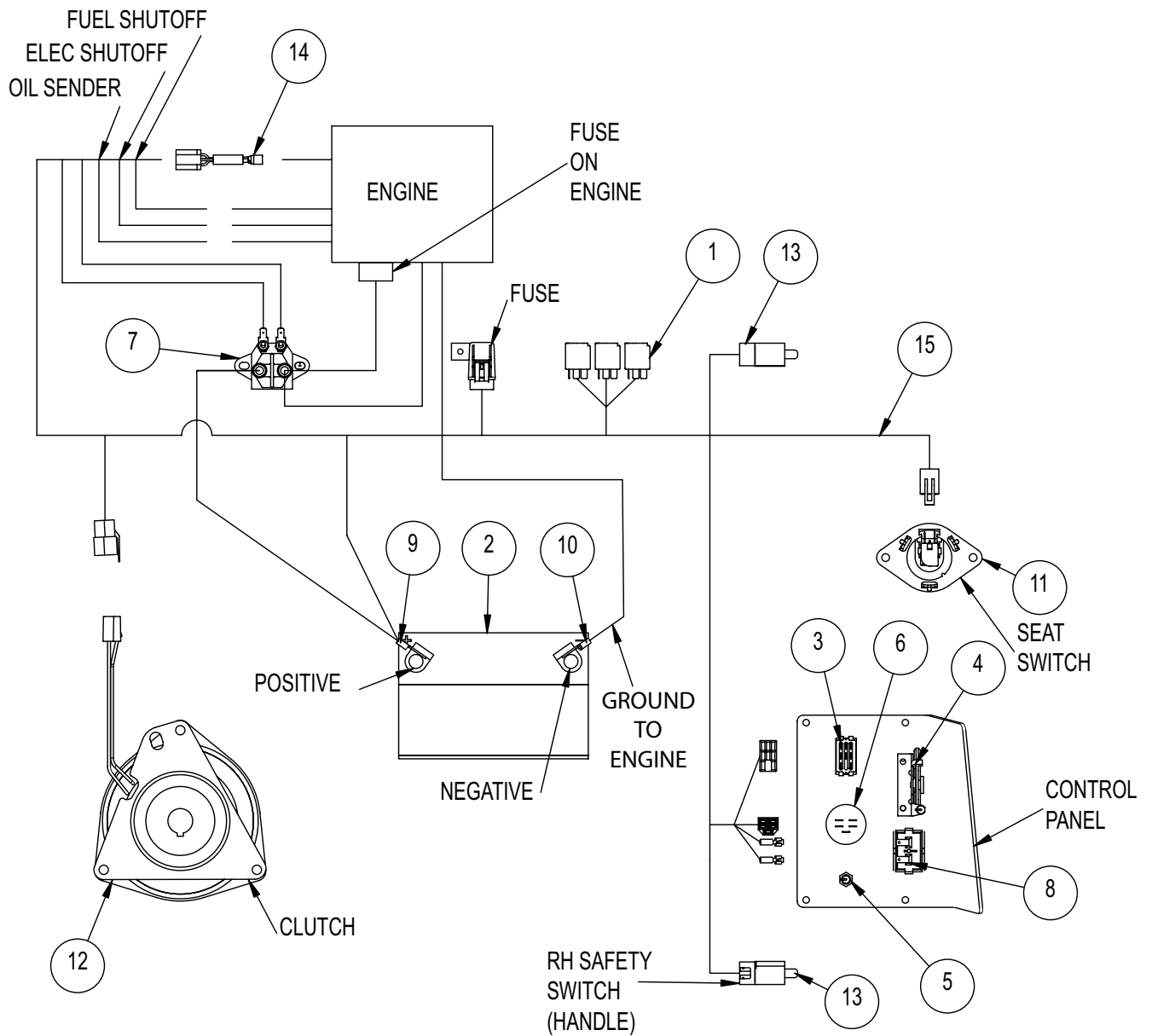
71 - SEAT & ENGINE GUARD PLATE ASSEMBLY



SEAT & ENGINE GUARD PLATE ASSEMBLY - 72

ITEM	PART NO	QTY	DESCRIPTION
1	191612	1	WLDT, FRAME AND DECK LIFT
2	967354	4	RING, RUE .500 x .062 x 1.420
3	967398	1	WASHER, .510 X 1.00 X .068 NYLON
4	964048	2	LOCKNUT, 1/4-20 NYLOC
5	110330	4	PIN, CVS .500 X 1.25 X 1.02 Y
6	111886	1	P-CLIP, .500 INSULATED
7	135139	1	BOLT, 1/2 X 1.00 X 3/8-16 SLD 5
8	180604	1	PLATE, HITCH
9	180916	1	SEAT, FULL SUSPENSION
10	964022	5	LOCKNUT, 3/8-16 CROWN
11	964021	4	LOCKNUT, 5/16-18 CROWN
12	960700	2	WASHER, .250 REG FLAT
13	181003	2	DECAL, PARK BRAKE
14	963095	2	BOLT, 1/4-20 X .750 CRG 5
15	191615	1	PLATE, REAR ENG. GUARD S/O W/DECALS
16	191074	2	BRACE, BENT ARM HITCH
17	191614	1	PLATE, SEAT S/O W/DECALS
18	191142	4	PLATE, ARM CONNECTOR LINK
19	191613	1	PLATE, FLOOR PAN X/O W/DECALS
20	963019	12	BOLT, 3/8-16 X 1.00 CRG 5 SN
21	191214	1	DECAL, SAFETY GROUP
22	191257	4	TAPE, TRACTION 3.00 X 17.00
23	960701	4	WASHER, .313 REG FLAT
24	191487	1	CHAIN, .148 X 28 LINKS
25	960046	4	BOLT, 3/8-16 X 1.00 HEX 5
26	960502	12	NUT, 3/8-16 STD HEX GR5
27	960602	12	WASHER, .375 MED SPRG LOCK
28	181380	2	ARM REST

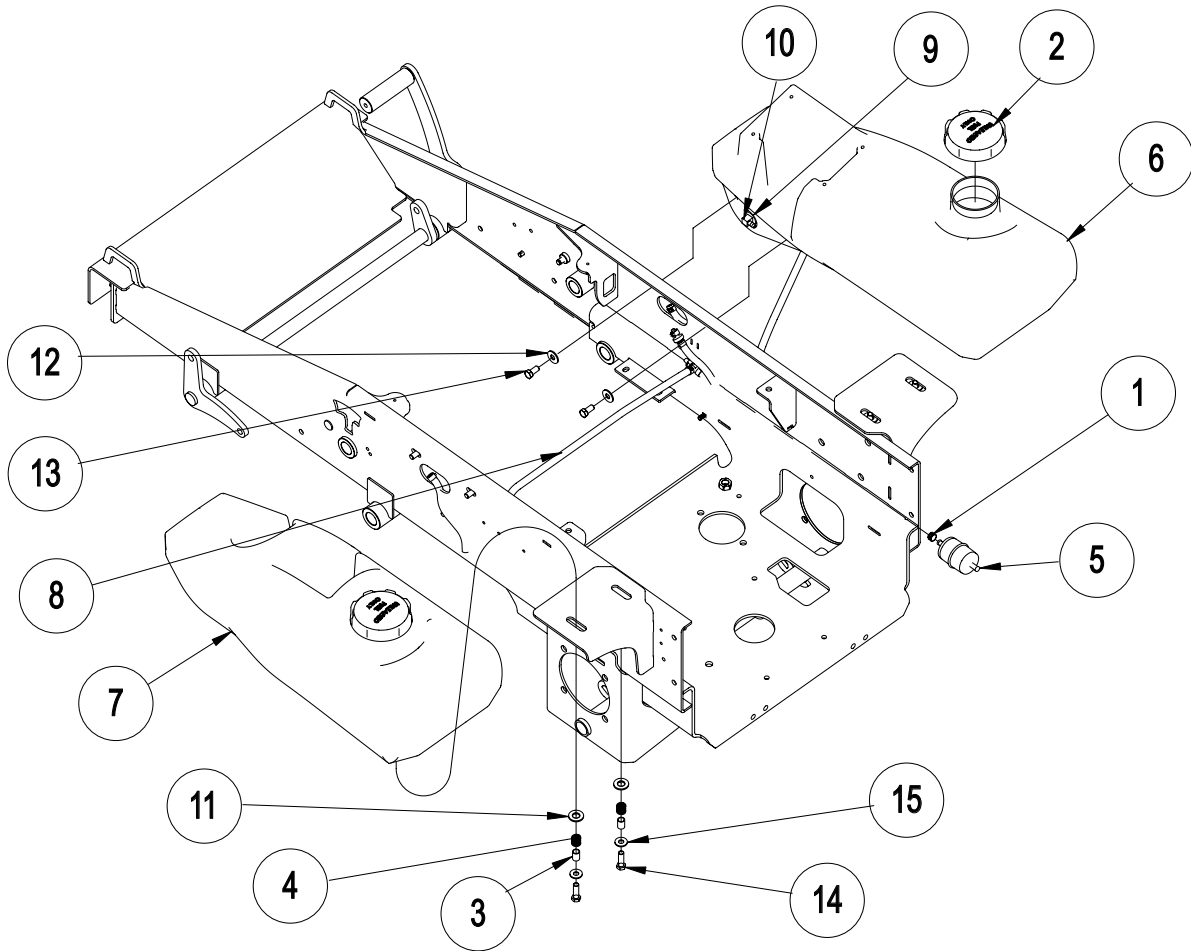
73 - ELECTRICAL COMPONENTS



ELECTRIC COMPONENTS - 74

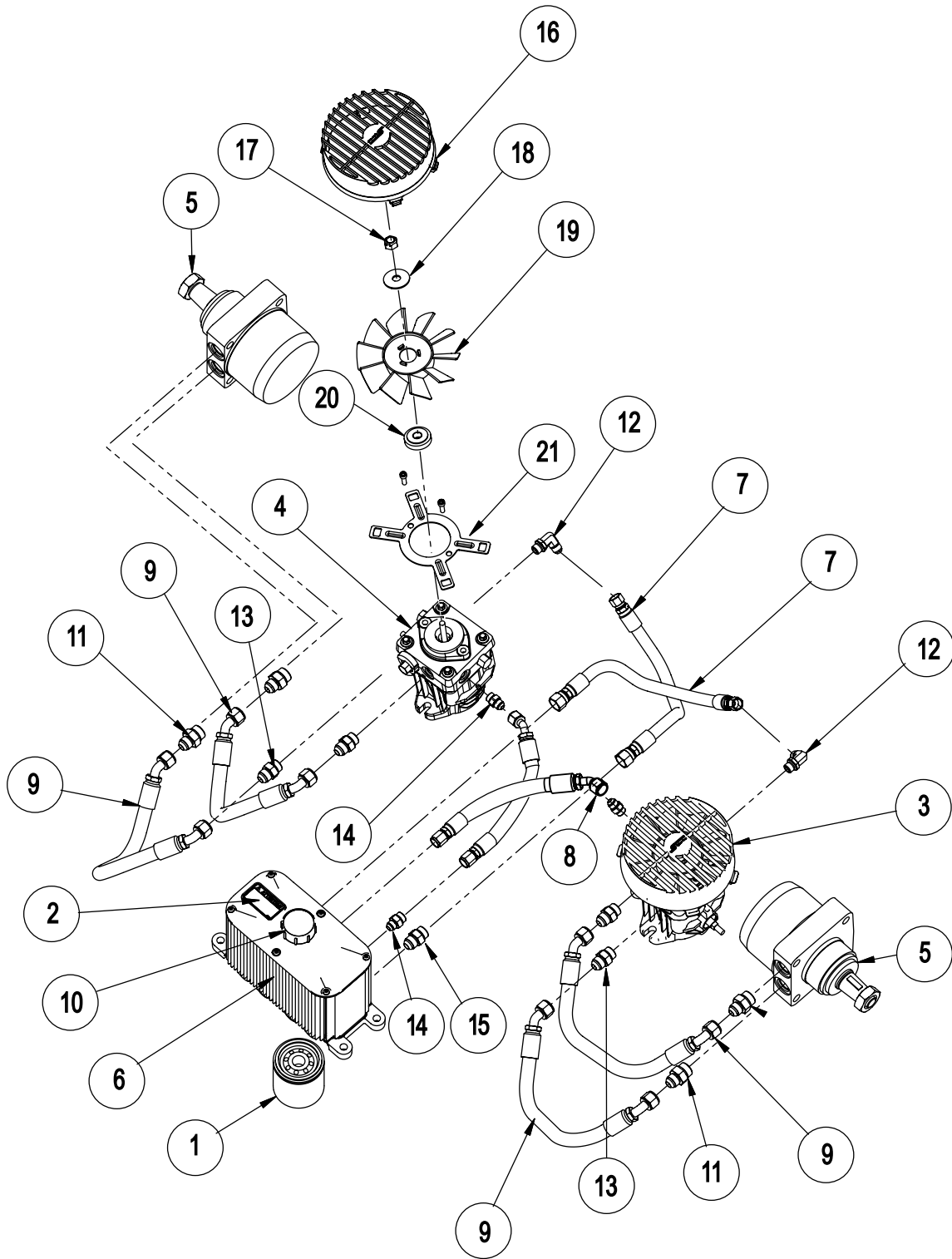
ITEM	PART NO	QTY	DESCRIPTION
1	102770	3	RELAY, ISO MINI ELEC.
2	N/A	1	BATTERY, 12V - SEALED
3	136574	1	SWITCH, PTO ENGAGEMENT
4	180272	1	CABLE, THROTTLE
5	180273	1	CABLE, CHOKE 48"
6	180620	1	SWITCH, KEY - 3 POSITION
7	180640	1	SOLENOID, 12 V STARTER
8	180799	1	METER, QUARTZ HOUR
9	180842	1	CABLE, 12" STARTER
10	191227	1	CABLE, BATTERY - 35" GROUND
11	181074	1	SEAT SWITCH S/O
12	191109	1	CLUTCH, ELECT - OGURA, GT2.5
13	191256	2	SWITCH, PLUNGER DP - N.O. - N.C.
14	191258	1	ADAPTER HARNESS, KAWASAKI
	191358	1	ADAPTER HARNESS, BRIGGS
15	191200	1	HARNESS, WIRING

75 - FUEL COMPONENTS



ITEM	PART NO	QTY	DESCRIPTION
1	130924	3	CLAMP, 1/2 SPRING HOSE
2	181251	2	CAP, FUEL
3	181023	4	SPACER, GAS TANK ATTACHMENT
4	181027	4	SPRING, COM .660 X .067 X .625
5	181060	1	FUEL FILTER - S/O
6	191194	1	FUEL TANK, RH W/GRAPHICS
7	191195	1	FUEL TANK, LH W/GRAPHICS
8	191282	1	ASSY, HORNET FUEL LINE W/CHECK VALVE
9	181208	2	GROMMET, TANK FITTING RUBBER
10	191605	2	FITTING. 90 DEGREE
11	964505	4	WASHER, .500 X 1.00 X .105 FLAT
12	960702	4	WASHER, .375 REG FLAT
13	960045	4	BOLT, 3/8-16 X .750 HEX 5
14	960047	4	BOLT, 3/8-16 X 1.25 HEX 5
15	960701	4	WASHER, .313 REG FLAT

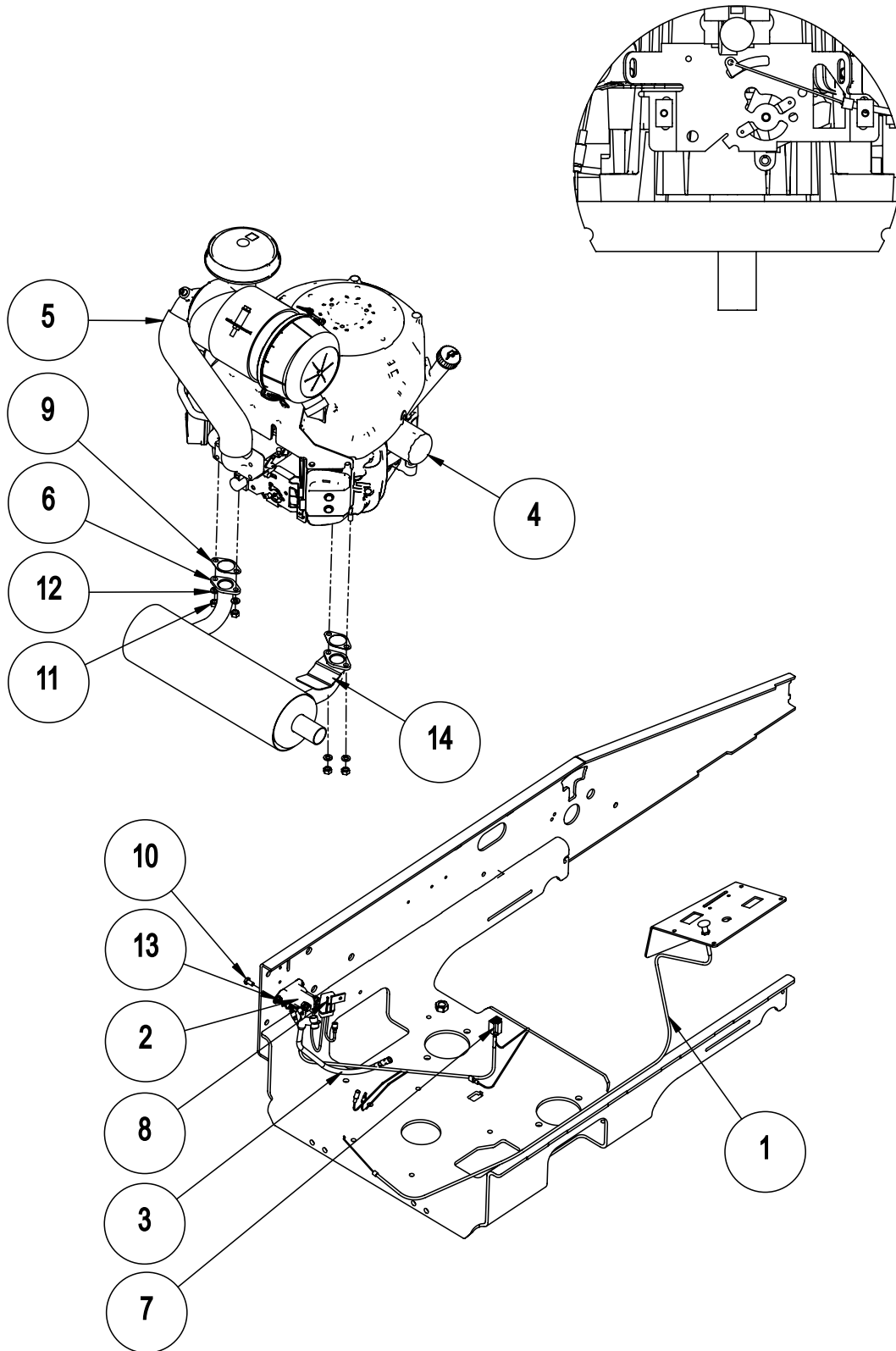
77 - HYDRAULIC COMPONENTS



HYDRAULIC COMPONENTS - 78

ITEM	PART NO	QTY	DESCRIPTION
1	180909	1	FILTER, 25 MICRON
2	181254	1	DECAL, HYDRAULIC OIL
3	191101	1	PUMP, HYDRO-GEAR LEFT HAND
4	191102	1	PUMP, HYDRO-GEAR RIGHT HAND
N/I	191618	2	SEAL KIT, HYDRO-GEAR PUMP
5	191103	2	WHEEL MOTOR, PARKER TL195
N/I	191619	2	SEAL KIT, PARKER WHEEL MOTOR
6	191616	1	TANK, HYDRAULIC S/O W/DECALS
7	191204	2	HOSE, HYD 3/8 9/16&3/4FJICSW
8	191205	2	HOSE, HYD 3/8 9/16JICFESW
9	191206	4	HOSE, HYD 1/2 3/4FJICSW45°
10	191600	1	CAP, HYDRAULIC
11	231104	4	ADAPTER, 7/8MOR X 3/4MJIC
12	313270	4	FTG, 90 9/16 MOR X 9/16 MJIC
13	313391	4	ADAPTER, 3/4-16MORX 3/4-16JIC
14	221285	2	FTG, ADP 9/16-18MORX9/16MJIC
15	313391	2	ADAPTER, 3/4-16MORX 3/4-16JIC
16	191620	2	SHROUD, HORNET PUMP
17	964066	2	LOCKNUT, 3/8-24 CROWN
18	180995	2	WASHER, .375 X 1.24 X .072 BLVL
19	191621	2	FAN, HORNET PUMP
20	180994	2	HUB, FAN
21	191622	2	PLATE, SHROUD MOUNT

Throttle Connection

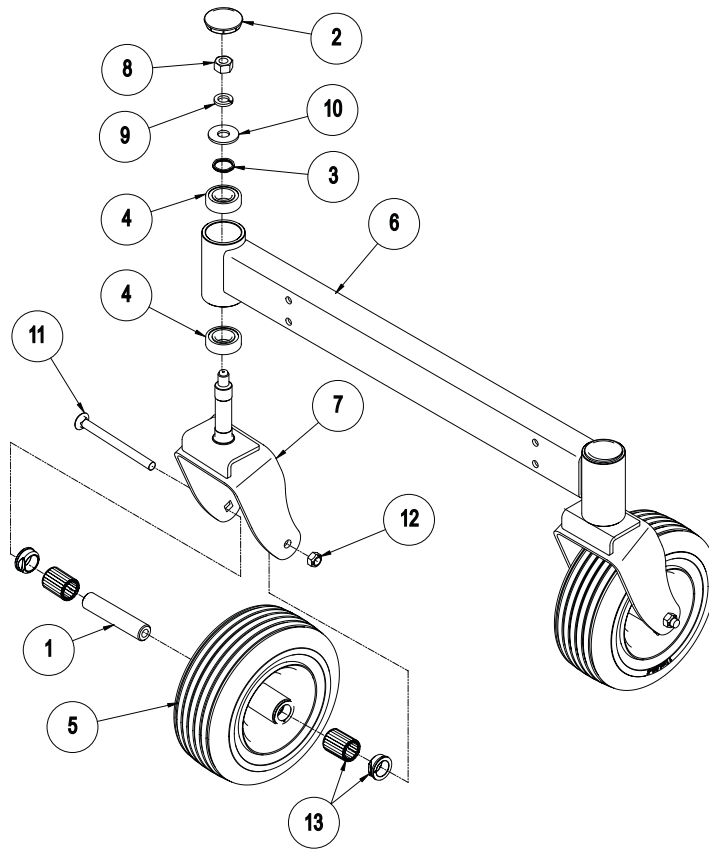


ITEM	PART NO	QTY	DESCRIPTION
1	180273	1	CABLE, CHOKE 48"
2	180640	1	SOLENOID, 12 V STARTER
3	180842	1	CABLE, 12" STARTER
4	181073	1	OIL FILTER - KAWASAKI
	191631	1	OIL FILTER - BRIGGS & STRATTON
5	191119	1	ENGINE, KAWASAKI 19 HP
	191123	1	ENGINE, KAWASAKI 23 HP
	191359	1	ENGINE, BRIGGS & STRATTON 25
6	191125	1	MUFFLER, KAWASAKI ONLY FH-HORI
7	191258	1	ADAPTER HARNESS, KAWASAKI
8	191260	1	ADAPTER, HARNESS KAWASAKI, FUSE
	191358	1	ADAPTER, BRIGGS WIRE HARNESS
9	191601	2	KIT, MUFFLER GASKET *
10	960000	2	BOLT, 1/4-20 X .500 HEX 5
11	N/A	2	NUT, M8 X 1.25 HEX GR8.8
12	N/A	2	WASHER, M8 SPRG LOCK
13	964040	2	LOCKNUT, 1/4-20 WHIZ
14	191365	1	SHIELD, EXHAUST

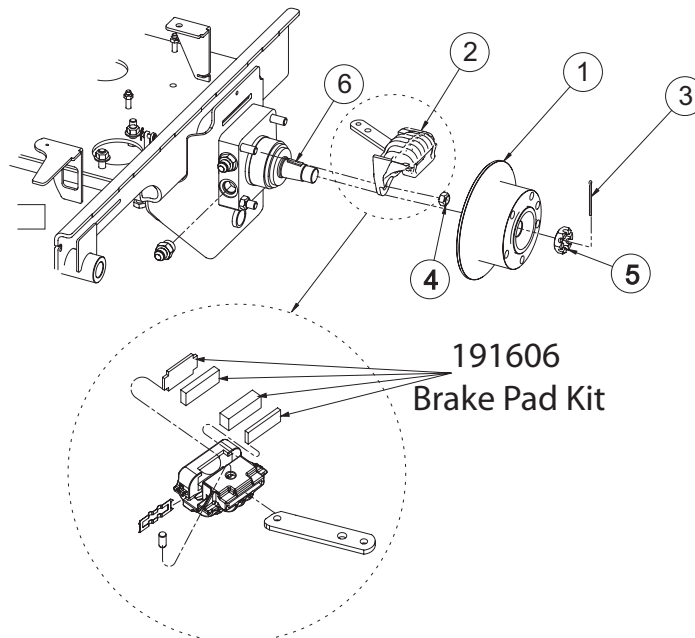
* Includes items 9, 11, & 12.

81 - FRONT WHEEL ASSEMBLY/REAR BRAKE COMPONENTS

FRONT WHEEL ASSEMBLY



REAR BRAKE & HUB COMPONENTS



FRONT WHEEL ASSEMBLY/REAR BRAKE COMPONENTS - 82

FRONT WHEEL ASSEMBLY

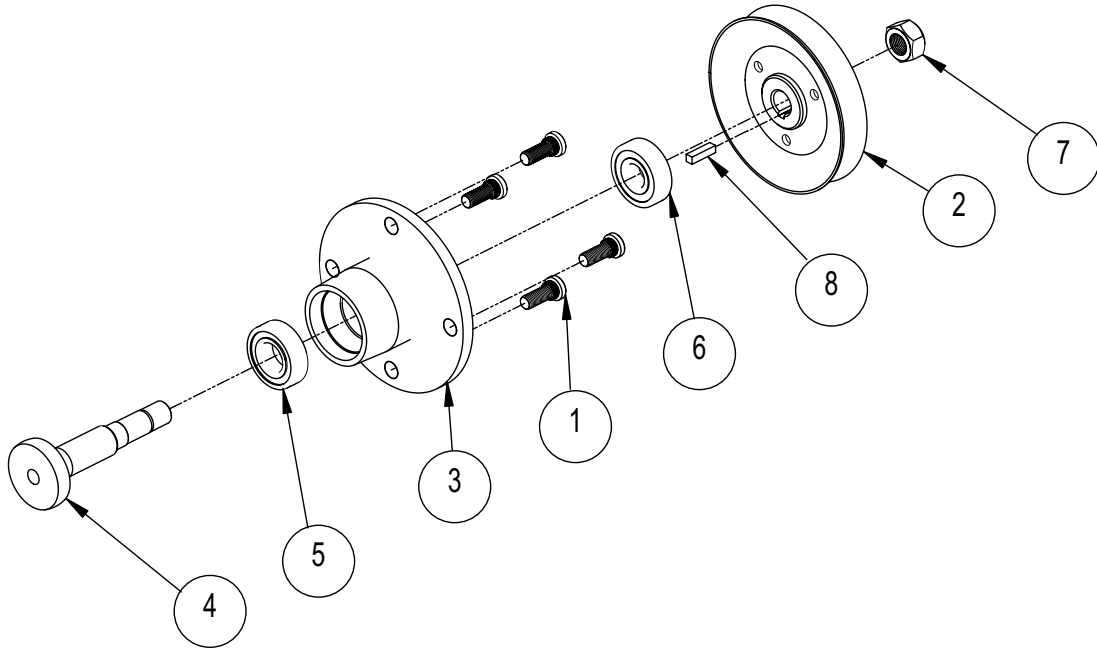
ITEM	PART NO	QTY	DESCRIPTION
1	191049	2	TUBE, RD 1.00X.500X4.76
2	191052	2	CAP, DUST 2.04
3	191100	2	WASHER, WAVE 1.0 SHAFT 1.25 BORE
4	149230	4	BRG, BALL .984 X 2.05 X .591 - 6205
5	191283	2	ASSY, TIRE & RIM 11X4-5 W/R BRG
6	191525	1	WLDT, FRONT AXLE
7	191575	2	WLDT, FR WHEEL FORK
8	960505	2	NUT, 5/8-11 STD HEX GR5
9	960605	2	WASHER, .625 MED SPRG LOCK
10	960705	2	WASHER, .625 REG FLAT
11	963011	2	BOLT, 1/2-13X6.00 CRG
12	964000	2	LOCKNUT, 1/2-13 CROWN
13	191604	1	KIT, 1.00 x 4.75 HUB BEARING

REAR BRAKE & HUB COMPONENTS

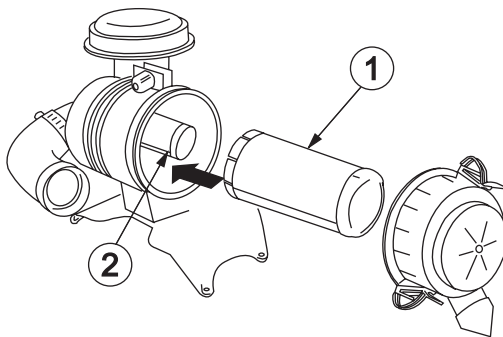
ITEM	PART NO	QTY	DESCRIPTION
1	191110	2	WHEEL HUB, 8" DISC 5 BOLT
2	191111	1	ASSY, M15 BRAKE & BRKT CCW - LH
	191112	1	ASSY, M15 BRAKE & BRKT CW - RH
3	962020	2	PIN, COT .125 X 1.75 EXTP
4	964000	8	LOCKNUT, 1/2-13 CROWN
5	191625	2	NUT, HUB RETAINING
6	191603	2	KEY, WDRF .312X1.00-#502 HRD
***	191606	2	KIT, BRAKE PAD REPLACEMENT KIT Includes Cam Pad Support, Carrier Pad Support, Cam Pad & Carrier Pad

83 - SPINDLE ASSEMBLY/AIR FILTER ASSEMBLY

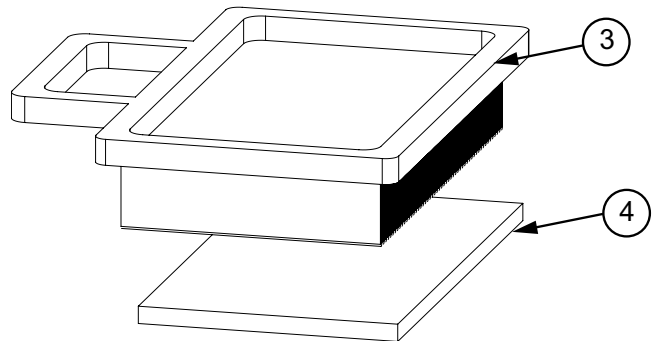
SPINDLE ASSEMBLY



AIR FILTER ASSEMBLY



Kawasaki



Birrig's & Stratton

SPINDLE ASSEMBLY/AIR FILTER ASSEMBLY - 84

SPINDLE ASSEMBLY

ITEM	PART NO	QTY	DESCRIPTION
1	145561	4	BOLT, 7/16-20 X 1.22 SPC 5
2	180780	1	PULLEY, V-BELT 5.75X.750 52"
	191115	1	PULLEY, V-BELT 4.50X.750 48"
3	191013	1	SPINDLE, MACHINED BALL BRG
4	191014	1	SHAFT, SPINDLE
5	149230	1	BRG, BALL M25XM52XM15 6205
6	103977	1	BRG, BALL M20XM52XM15 6304
7	964024	1	LOCKNUT, 3/4-16 CROWN
8	966045	1	KEY, .250 X .250 X 1.00 SQ

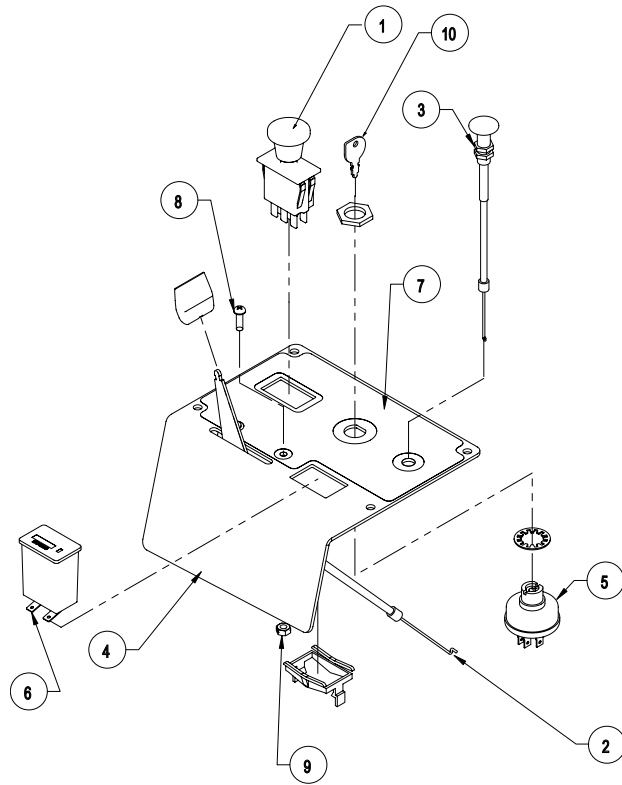
* NOTE: Quantities listed are per spindle.

AIR FILTER ASSEMBLY

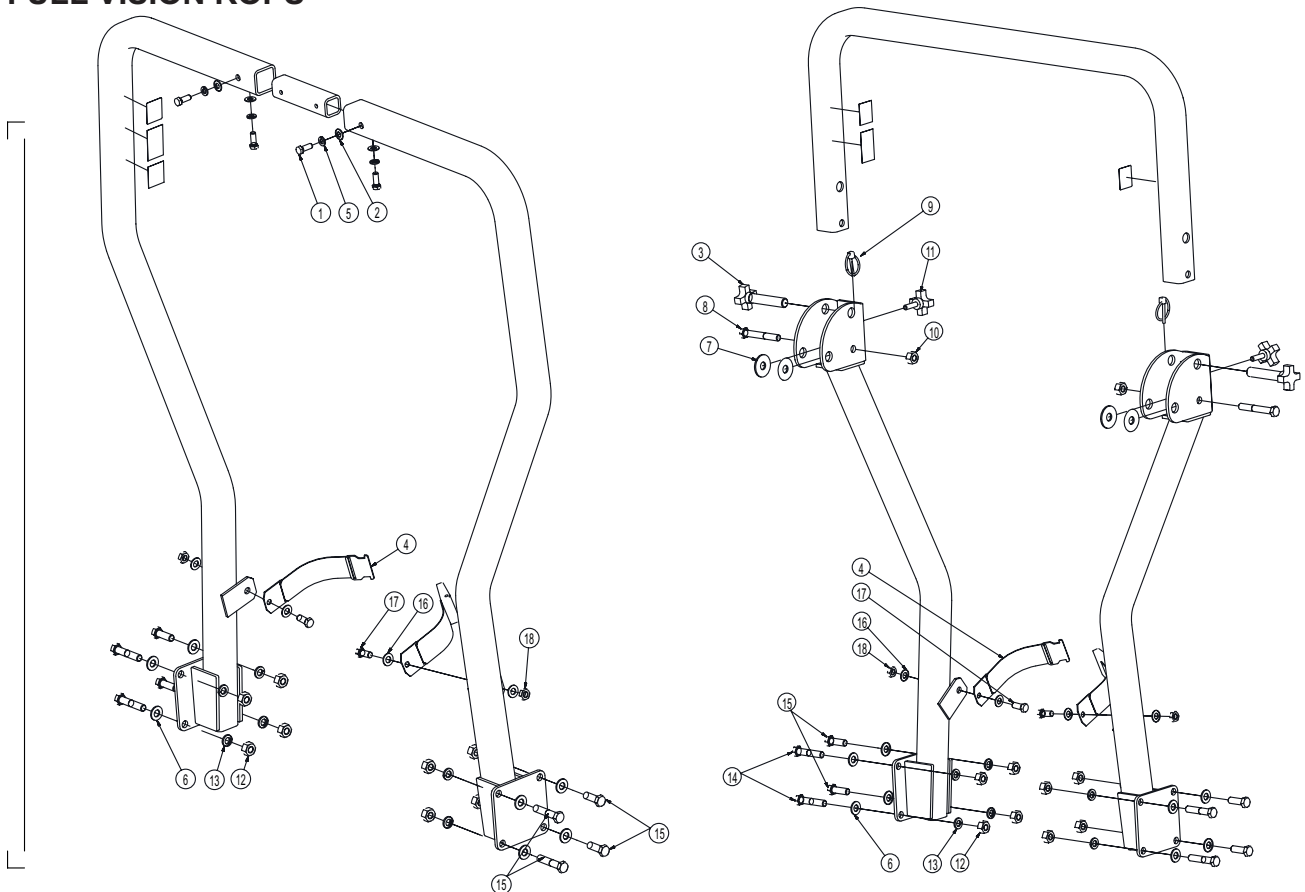
ITEM	PART NO	QTY	DESCRIPTION
1	181071	1	FILTER, PRIMARY AIR
2	181072	1	FILTER, SECONDARY AIR
3	191630	1	FILTER, BRIGGS PREMIUM AIR
4	191632	1	FILTER, BRIGGS ENGINE PRE-CLEANER

85 - CONTROL PANEL ASSEMBLY/FULL VISION ROPS

CONTROL PANEL ASSEMBLY



FULL VISION ROPS



CONTROL PANEL ASSEMBLY

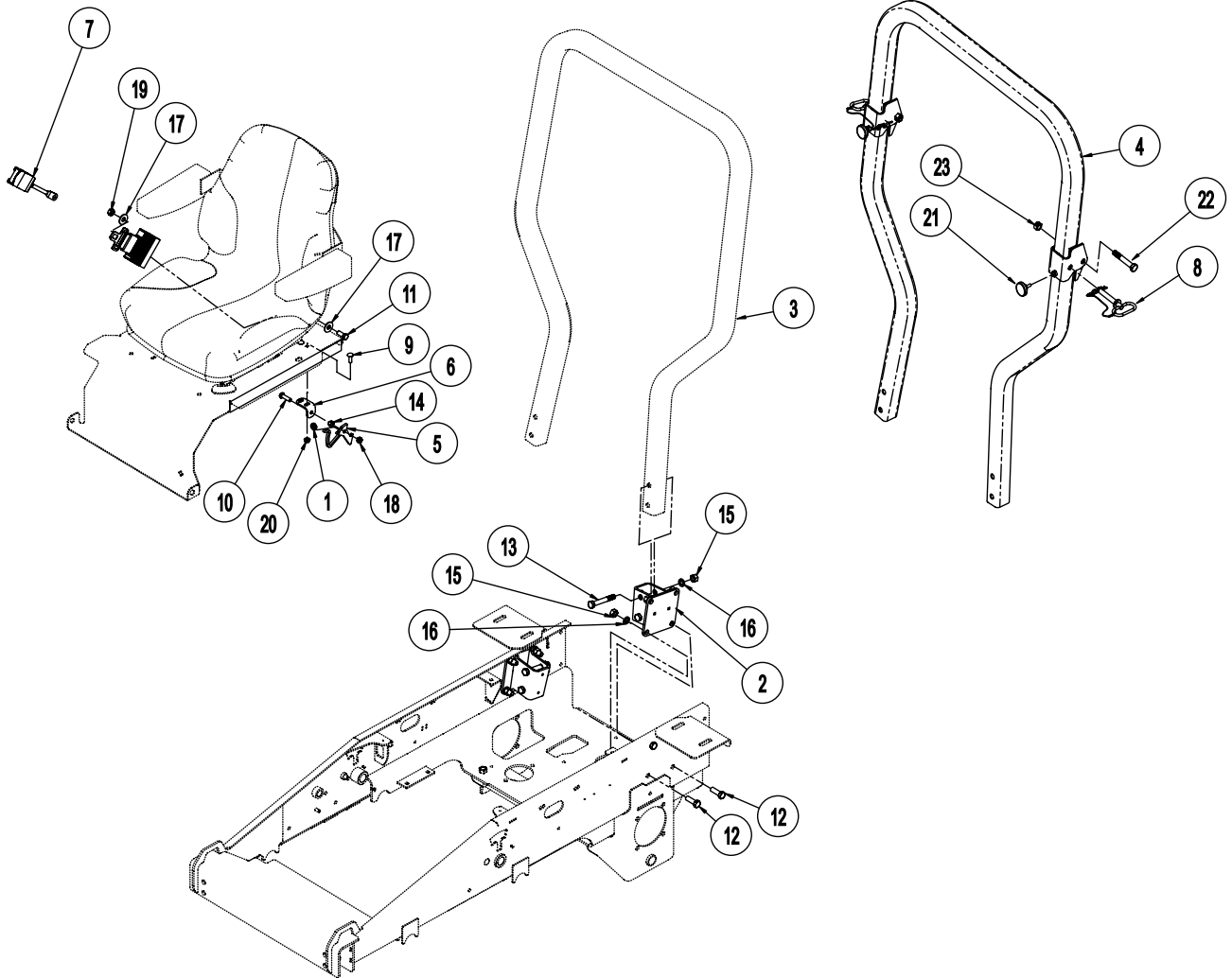
ITEM	PART NO	QTY	DESCRIPTION
1	136574	1	SWITCH, PTO ENGAGEMENT
2	181296	1	THROTTLE CABLE
3	180273	1	CHOKE CABLE
4	181470	1	CONTROL PANEL S/O - W/DECAL
5	180620	1	KEY SWITCH - 3 POSITION W/KEY
6	180799	1	HOUR METER; QUARTZ
7	181124	1	DECAL, CONTROL PANEL
8	967340	4	SCREW PAN HD PHL #10-24x5/8
9	964028	4	LOCKNUT, 10-24 CENTER
10	105684	1	KEY, IGNITION S/O

FULL VISION ROPS

ITEM	PART NO	QTY	DESCRIPTION
1	960046	4	HHCS, 3/8-16 x 1 G5
2	960702	4	FLATWASHER, 3/8 REG
3	181119	2	PIN ASSEMBLY
4	181092	1	SEAT BELT
5	960602	4	LOCKWASHER, 3/8
6	960704	8	FLATWASHER, 1/2 REG
7	181090	4	WASHER, UHMW
8	960122	2	HHCS, 1/2-13 x 3.5 G5
9	967212	2	LYNCH PIN
10	967106	2	LOCKNUT, 1/2-13
11	181118	2	KNOB W/STUB 3/8-16 1.5
12	960504	8	NUT, 1/2-13 HEX
13	960604	8	LOCKWASHER, 1/2
14	960118	4	HHCS, 1/2-13 x 1.5 G5
15	960114	4	HHCS, 1/2-13 x 2.5 G5
16	960703	4	FLATWASHER, 7/16 REG
17	960529	2	HHCS, 7/16-20 X 1 G5
18	960528	2	LOCKNUT, 7/16-20 CENTER

WARNING: Use only Grade 5 or better replacement hardware on the ROPS.

87 - FEMCO ROPS



ITEM	PART NO	QTY	DESCRIPTION
1	160176	1	SPRING, COMPRESSION
2	181561	2	WLDT, ROPS MOUNT
3	191491	1	ROPS, FIXED
4	191492	1	ROPS, FOLDING
5	191495	1	HOOK, LATCH
6	191496	1	BRACKET, LATCH
7	181572	1	ASSY, SEAT BELT
8	181591	2	ASSY, FOLDING ROPS LOCK PIN S/O
9	963074	2	BOLT, 5/16-18 X 1.00 CRG GR5 Y
10	960047	1	BOLT, 3/8-16 X 1.25 HEX GR5 Y
11	960079	2	BOLT, 7/16-14 X 1.00 HEX GR5 Y
12	960114	8	BOLT, 1/2-13 X 1.50 HEX GR5 Y
13	960122	4	BOLT, 1/2-13 X 3.50 HEX 5 Y
14	960502	1	NUT, 3/8-16 STD HEX GR5 Y
15	960504	12	NUT, 1/2-13 STD HEX GR5 Y
16	960604	12	WASHER, .500 MED SPRG LOCK Y
17	960703	4	WASHER, .438 REG FLAT Y
18	964022	1	LOCKNUT, 3/8-16 CROWN Y
19	964025	2	LOCKNUT, 7/16-14 CROWN Y
20	964019	2	LOCKNUT, 5/16-18 WHIZ Y
21	181592	2	KNOB, 5/16-18 ROUND S/O
22	960121	2	BOLT, 1/2-13 X 3.50 HEX 5 Y
23	967106	2	LOCKNUT, 1/2-13 CENTER

WARNING: Use only Grade 5 or better replacement hardware on the ROPS.

89 - PARTS LIST

PART NO		PAGE		ITEM
102770		74		1
103096		68		3
103380		64		3
103906		62		1
103977		84		6
105546		62		2
105546		68		4
105684		86		10
110330		72		5
110580		68		7
111886		72		6
111910		68		5
111910		70		5
130886		64		4
130923		64		5
130923		70		6
130924		70		7
130924		76		1
135139		62		3
135139		72		7
136574		74		3
136574		86		1
140280		62		4
145561		84		1
149230		82		4
149230		84		5
150079		68		6
150109		66		2
160169		62		5
160176		88		1
161897		64		6
161955		62		6
180231		64		7
180272		74		4
180273		74		5
180273		80		1
180273		86		3
180390		64		8
180390		70		10

PART NO		PAGE		ITEM
180604		72		8
180606		64		9
180617		68		10
180620		74		6
180620		86		5
180639		68		11
180640		74		7
180640		80		2
180779		68		12
180780		84		2
180799		74		8
180799		86		6
180842		74		9
180842		80		3
180897		64		10
180909		78		1
180916		72		9
180922		66		3
180954		68		13
180956		66		4
180957		66		5
180961		64		11
180962		68		14
180982		66		6
180994		78		20
180995		78		18
180996		70		14
181003		72		13
181017		66		7
181023		76		3
181027		76		4
181060		76		5
181071		84		1
181072		84		2
181073		80		4
181074		74		11
181090		86		7
181092		86		4
181118		86		11

PARTS LIST- 90

PART NO		PAGE		ITEM
181119		86		3
181124		86		7
181194		62		7
181208		76		9
181228		70		19
181251		76		2
181254		78		2
181258		62		8
181296		86		2
181347		68		9
181348		68		8
181380		72		28
181470		86		4
181561		88		2
181572		88		7
181591		88		8
181592		88		21
191013		84		3
191014		84		4
191048		68		15
191049		82		1
191052		82		2
191074		72		16
191080		66		9
191081		66		10
191082		64		12
191082		68		2
191083		68		16
191098		62		9
191100		82		3
191101		78		3
191102		78		4
191103		78		5
191107		62		10
191108		62		10
191109		68		17
191109		74		12
191110		82		1
191111		82		2

PART NO		PAGE		ITEM
191112		82		
191115		84		
191119		80		5
191123		80		5
191125		80		6
191129		66		17
191137		64		14
191142		72		18
191151		64		15
191163		62		11
191164		62		12
191165		62		13
191166		68		18
191175		66		19
191176		66		20
191177		66		21
191179		64		16
191183		64		17
191185		64		18
191186		64		19
191194		76		6
191195		76		7
191196		68		14
191199		68		19
191200		70		11
191200		74		15
191201		62		14
191203		68		20
191204		78		7
191205		78		8
191206		78		9
191208		64		20
191214		72		21
191216		70		20
191226		62		15
191227		66		25
191227		74		10
191228		70		18
191255		62		16

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PART NO		PAGE		ITEM
191256		64		21
191256		74		13
191257		72		22
191258		74		14
191258		80		7
191260		80		8
191261		64		22
191265		68		21
191268		68		22
191282		70		17
191282		76		8
191283		82		5
191289		70		16
191295		64		23
191298		64		13
191347		62		17
191347		68		23
191355		62		18
191358		74		14
191358		80		8
191359		80		5
191365		80		14
191369		62		19
191370		62		19
191374		62		20
191378		62		21
191379		62		21
191381		62		22
191486		62		23
191487		72		24
191491		88		3
191492		88		4
191495		88		5
191496		88		6
191500		62		24
191509		66		26
191510		64		24
191511		66		27
191512		66		28

PART NO		PAGE		ITEM
191513		64		24
191516		66		29
191517		62		24
191525		82		6
191527		64		26
191528		64		27
191531		62		25
191532		64		28
191533		62		26
191537		62		27
191559		62		29
191575		82		7
191576		68		24
191577		68		25
191579		62		26
191581		68		26
191600		78		10
191601		80		9
191603		82		6
191604		82		13
191605		76		10
191606		82		***
191610		62		28
191611		62		28
191612		68		1
191612		72		1
191613		72		19
191614		72		17
191615		72		15
191616		78		6
191617		64		29
191618		78		N/I
191619		78		N/I
191620		78		16
191621		78		19
191622		78		21
191625		82		5
191630		84		3
191631		80		4

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PART NO		PAGE		ITEM
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191632		84		4
221285		78		14
231104		78		11
313270		78		12
313391		78		13
313391		78		15
356473		62		30
473450		66		34
959994		62		31
959995		68		27
960000		80		10
960002		64		30
960025		66		35
960026		66		36
960045		76		13
960046		62		32
960046		70		15
960046		72		25
960046		86		1
960047		66		37
960047		68		28
960047		76		14
960047		88		10
960048		68		29
960049		64		31
960058		62		33
960058		64		32
960058		68		38
960079		88		11
960081		66		38
960114		86		15
960114		88		12
960117		68		44
960118		86		14
960121		88		22
960122		86		8
960122		88		13
960160		62		34
960163		62		35

PART NO		PAGE		ITEM
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960501		70		9
960502		62		36
960502		72		26
960502		88		14
960504		66		39
960504		86		12
960504		88		15
960505		82		8
960528		86		18
960529		86		17
960601		64		33
960601		66		40
960601		70		13
960602		72		27
960602		86		5
960604		86		13
960604		88		16
960605		82		9
960700		66		41
960700		72		12
960701		66		42
960701		68		30
960701		72		23
960701		76		15
960702		66		43
960702		68		31
960702		70		12
960702		76		12
960702		86		2
960703		68		32
960703		86		16
960703		88		17
960704		86		6
960705		82		10
961343		62		37
961701		62		38
961701		64		34
962020		82		3
962200		66		44

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PART NO		PAGE		ITEM
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963011		82		11
963019		72		20
963020		62		39
963074		66		16
963074		88		9
963095		72		14
964000		68		45
964000		82		12
964000		82		4
964003		64		35
964003		66		15
964005		62		40
964011		64		36
964014		62		41
964016		62		42
964016		64		37
964016		66		14
964016		68		33
964019		66		33
964019		88		20
964021		66		32
964021		72		11
964022		62		43
964022		64		38
964022		66		31
964022		68		34
964022		70		8
964022		72		10
964022		88		18
964024		84		7
964025		66		30
964025		68		35
964025		88		19
964028		86		9
964040		80		13
964044		62		44
964047		64		39
964048		64		40
964048		66		24

PART NO		PAGE		ITEM
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964048		72		4
964061		66		23
964066		66		22
964066		78		17
964502		62		45
964502		68		36
964505		76		11
966045		84		8
966058		68		37
967054		64		41
967054		66		18
967061		64		42
967106		86		10
967106		88		23
967133		70		4
967152		70		2
967189		64		43
967212		86		9
967338		66		13
967340		64		44
967340		70		1
967340		86		8
967342		66		12
967343		68		39
967350		66		11
967353		66		8
967353		68		40
967354		72		2
967356		62		46
967357		68		41
967358		64		1
967390		64		25
967392		62		47
967393		66		1
967394		68		42
967397		62		48
967398		72		3
967399		68		43
968088		62		49

