# Operator's manual

LZ5225TKAA/968999268, LZ6123TLKOA/968999269 LZ6125TKAA/968999270, LZ6127TKOA/968999271 LZ7227TKOA/968999272



Please read the operator's manual carefully and make sure you understand the instructions before using the machine.

# **OPERATOR'S MANUAL**

# **RIDER**

# **LZ SERIES**

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#### **WARNING!**

Failure to follow cautious operating practices can result in serious injury to the operator or other persons. The owner must understand these instructions, and must allow only trained persons who understand these instructions to operate the mower. Each person operating the mower must be of sound mind and body and must not be under the influence of any mind altering substance.



### **WARNING!**

Engine exhaust, some of its constituents, and certain vehicle componets contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.



#### **WARNING!**

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

# **INTRODUCTION**

#### Introduction

### **Congratulations**

Thank you for purchasing a Husqvarna ride-on mower. This machine is built for the greatest efficiency and rapid mowing primarily of large areas. Controls in one place and a hydrostatic transmission regulated by steering controls also contribute to the machine's performance.

This manual is a valuable document. Following the instructions (use, service, maintenance, etc.) can considerably increase the lifespan of your machine and even increase its resale value.

If you sell your machine, be sure to give the operator's manual to the new owner.

The final chapter of this operator's manual comprises a Service Journal. Ensure that service and repair work is documented. A well kept service journal reduces service costs for the season-based maintenance and affects the machine's resale value. Take the operator's manual along when the machine is left at the workshop for service.

#### General

In this operator's manual, left and right, backward and forward are used in relation to the machine's normal driving direction.

Continuous dedication to improve our products require that specifications and design are subject to change without notice.

### **Driving and Transport on Public Roads**

Check applicable road traffic regulations before driving and transport on public roads. If the machine is transported, you must always use approved fastening equipment and ensure that the machine is well anchored.

### **Towing**

Do not tow this machine, it may cause damage to the drive system.

Do not tow any trailers, etc with this mower. They may jackknife or overturn causing damage to the mower and possibly serious injury to the operator.

#### Operating

This machine is constructed only for mowing grass on lawns and other free and even ground without obstacles such as stones, tree stubs, etc. The machine can also be used for other tasks when equipped with special accessories provided by the manufacturer, for which the operating instructions are provided in conjunction with delivery. All other types of use are incorrect. The manufacturer's directions concerning operation, maintenance, and repairs must be carefully followed.

Lawnmowers and all power equipment, can be potentially dangerous if used improperly. Safety requires good judgement, careful use in accordance with these instructions and common sense.

The machine must only be operated, maintained, and repaired by persons that are familiar with the machine's special characteristics and who are well versed in the safety instructions.

Accident prevention regulations, other general safety regulations, occupational safety rules, and traffic regulations must be followed without fail.

Unauthorized modifications to the design of the machine may absolve the manufacturer from liability for any resulting personal injury or property damage.

### INTRODUCTION

#### **Good Service**

Husqvarna's products are sold all over the world and only in specialized retail stores with complete service. This ensures that you as a customer receive only the best support and service. Before the product is delivered, the machine has, for example, been inspected and adjusted by your retailer, see the certificate in the Service Journal in this operator's manual.

When you need spare parts or support in service questions, warranty issues, etc., please consult the following professional:

This Operator's Manual belongs to the machine with manufacturing number:	Engine	Transmission

### **Manufacturing Number**

The machine's manufacturing number can be found on the printed plate affixed behind the battery under the seat. Stated on the plate, from the top are:

- The machine's type designation (I.D.).
- The manufacturer's type number (Model).
- The machine's serial number (Serial no.)

Please state the type designation and serial number when ordering spare parts.

The engine's manufacturing number is stated on a barcode decal. This is placed on the left side of the crankcase, in front of the starter. The plate states:

- The engine's serial number (E/NO).
- The engine's type designation (Code).

Please state these when ordering spare parts.

The hydraulic pump's manufacturing number is stated on a barcode decal affixed to the left side of the pump housing. The plate states:

- The pump's type designation.
- The pump's serial number.

The hydraulic motor's manufacturing number is stated on a round metal plate. This is placed on the gable inside the motor. The plate states:

- The hydraulic motor's type designation and design version.
- The hydraulic motor's serial number.

### SYMBOLS AND DECALS

### **Symbols and Decals**

These symbols are found on the machine and in the operator's manual. Study them carefully so that you know what they mean.



WARNING!
Xxxxxxx xxxx xxxxxx xxx x
Xxxxx xxxxxx xx.
xx xxxxxxx xxxxx xxx xx.

Used in this publication to notify the reader of a risk of **personal injury**, particularly if the reader should neglect to follow instructions given in the manual.

IMPORTANT INFORMATION
XXXXXXX XXXX XXXX XXX XXXX XXX

Used in this publication to notify the reader of a risk of **material damage**, particularly if the reader should neglect to follow instructions given in the manual. Used also when there is a potential for misuse or misassembly.



















Fuel



Warning!



Parking brake



CE conformity marking. Only for European market



Warning! Rotating blades, keep away from the discharge deck



Do not touch rotating parts







Battery acid is corrosive, explosive, and flammable



Do not stand here



Noise emissions to the surroundings in accordance with the European Union's directive. The machine's emission is stated in the chapter TECHNICAL DATA and on the decals.

Only machines for European market







Use protective gloves

# **SYMBOLS AND DECALS**

Read Operator's Manual. Shut off engine & remove key before performing any maintenance or repair work.

Keep a safe distance from the machine.

Use on slopes no greater than 10°.

No passengers



Whole body exposure to thrown objects.



Severing of fingers & toes.



Do not open or remove safety shields while engine is running.





Careful backing up, watch for other people.





Careful going forward, watch for other people.



Moving sharp blades under cover



ROPS warning decal

### **Safety Instructions**

These instructions are for your safety. Read them carefully.

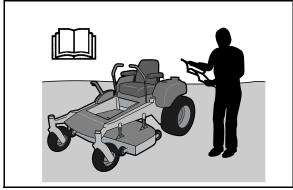


#### **WARNING!**

This symbol means that important safety instructions need to be emphasized. It concerns your safety.

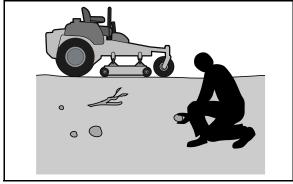
#### **General Use**

- Read all instructions in this operator's manual and on the machine before starting it. Ensure that you understand them and then abide by them.
- Learn how to use the machine and its controls safely and learn how to stop quickly. Also learn to recognize the safety decals.
- Only allow the machine to be used by adults who are familiar with its use.
- Make sure nobody else is in the vicinity of the machine when you start the engine, engage the drive, or run the machine.
- Make sure animals and people maintain a safe distance from the machine.
- Stop the machine if someone enters the work area.
- Clear the area of objects such as stones, toys, steel wire, etc. that may become caught in the blades and thrown out.
- Beware of the discharge deck and do not point it at any one. Do not use the machine without the discharge deck in place.
- Stop the engine and prevent it from starting before you clean the discharge deck.
- Remember that the operator is responsible for dangers or accidents.
- Never take passengers. The machine is only intended for use by one person.
- Always look down and behind before and during reversing maneuvers. Keep a look out for both large and small obstacles.
- Slow down before turning.
- Shut down the blades when not mowing.



8011-512

Read the operator's manual before starting the machine



8011-513

Clear the area of objects before mowing



8011-520

Never take passengers

- Be careful when moving around fixed objects, so that the blades do not hit them. Never drive over foreign objects.
- Only use the machine in daylight or in other well-lit conditions. Keep the machine a safe distance from holes or other irregularities in the ground. Pay attention to other possible risks.
- Never use the machine if you are tired, if you have consumed alcohol, or if you are taking other drugs or medication that can affect your vision, judgment, or coordination.
- Beware of traffic when working near or crossing a road.
- Never leave the machine unsupervised with the engine running. Always shut down the blades, pull back the parking brake, stop the engine, and remove the ignition key before leaving the machine.
- Never allow children or other persons not trained in the use of the machine to use or service it. Local laws may regulate the age of the user.



#### WARNING!

Engine exhaust and certain vehicle components contain or emit chemicals considered to cause cancer, birth defects, or other reproductive system damage. The engine exhaust contains carbon monoxide, which is a colorless, poisonous gas. Do not use the machine in enclosed spaces.



8011-518

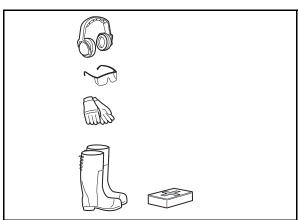
Keep children away from the work area



#### **WARNING!**

When using the machine, approved personal protective equipment shall be used. Personal protective equipment cannot eliminate the risk of injury but it will reduce the degree of injury if an accident does happen. Ask your retailer for help in choosing the right equipment.

- Make sure that you have first aid equipment close at hand when using the machine.
- Never use the machine when barefoot.
   Always wear protective shoes or boots, preferably with steel toecaps.
- Always wear approved protective glasses or a full visor when assembling or driving.
- Always wear gloves when handling the blades.
- Never wear loose clothing that can get caught in moving parts.
- Use ear protectors to avoid damage to hearing.



8011-670

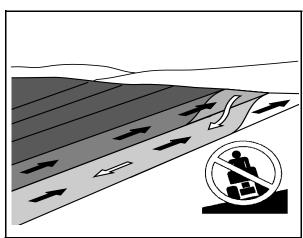
Personal protective equipment

#### **Driving on Slopes**

Driving on slopes is one of the operations where the risk is greatest that the driver will lose control or the machine will tip over, which can result in serious injury or death. All slopes require extra caution. If you cannot reverse up a slope or if you feel unsure, do not mow the slope.

#### Do as follows

- Remove obstacles such as stones, tree branches, etc.
- Watch out for and avoid driving over furrows, holes, and bumps. On uneven terrain, the machine can tip more easily. Long grass can hide obstacles.
- Mow up and down, not side-to-side.
- Drive evenly and slowly. Use small movements of the steering controls.
- Be extra cautious with any additional equipment, which can alter the machine's stability.
- If the machine stops while going uphill, disengage blades and back down slowly.



6003-004

Mow up and down, not side-to-side

#### Do not

- Do not make sudden changes in speed or direction.
- **Do not** drive the mower on terrain that slopes more than 10°.
- Do not mow near verges, ditches, or banks. The machine can suddenly spin around if a wheel goes over the edge of a drop or ditch, or if an edge gives way.
- Do not mow wet grass. It is slippery, and the tires can lose their grip, so that the machine slides.
- Do not try to stabilize the machine by putting a foot on the ground.
- **Do not** drive near verges or ditches when cleaning the machine.
- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.
- Avoid starting or stopping on a slope. If the tires begin to slip, shut down the blades and drive slowly straight down the slope.

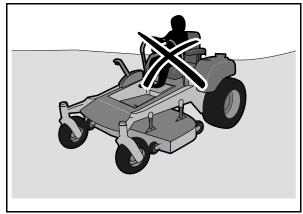


8011-519

Be extra cautious when driving on slopes

#### Children

- Serious accidents may occur if you fail to be on guard for children in the vicinity of the machine. Children are often attracted to the machine and mowing work. Never assume that children will stay put where you last saw them.
- Keep children away from the mowing area and under close supervision by another adult.
- Keep an eye out and shut off the machine if children enter the work area.
- Before and during a reversing maneuver, look backward and downward for small children.
- Never allow a child to ride with you.
   They can fall off and injure themselves seriously or prevent risk-free maneuvering of the machine.
- Never allow children to operate the machine.
- Be particularly cautious near corners, bushes, trees, or other objects that block your view.



9011-517

Never allow children to operate the machine

#### Maintenance

#### WARNING!

The engine must not be started when the driver's floor plate or any protective plate for the mower deck's drive belt is removed.

- Stop the engine. Prevent the engine from starting by removing the spark plug cables from the spark plugs or by removing the ignition key before making any adjustments or performing maintenance.
- Never fill the fuel tank indoors.
- Fuel and fuel fumes are poisonous and extremely flammable. Be especially cautious when handling fuel, as carelessness can result in personal injury or fire.
- Only store fuel in containers approved for the purpose.
- Never remove the fuel tank cap and never fill the fuel tank while the engine is running.
- Allow the engine to cool before refueling.
   Do not smoke. Do not fill fuel in the vicinity of sparks or open flames.
- If leaks arise in the fuel system, the engine must not be started until the problem has been resolved.
- Store the machine and fuel in such a way that there is no risk of leaking fuel or fuel vapor leading to damages.
- Check the fuel level before each use and leave space for the fuel to expand, because the heat from the engine and the sun may otherwise cause the fuel to expand and overflow.
- Avoid overfilling. If you spill fuel on the machine, wipe up the spill and wait until it has evaporated before starting the engine. If you have spilled fuel on your clothing, change your clothing.
- Allow the machine to cool before taking any actions in the engine compartment.
- Be very careful when handling battery acid.
   Acid on skin can cause serious corrosive burns.
   If you spill battery acid on your skin, rinse immediately with water.



8011-516

Never fill the fuel tank indoors



#### WARNING!

The engine, the exhaust system, and the hydraulic system's components become very warm during operation.
Risk for burns if touched.



Always use protective glasses when handling the battery.



#### WARNING!

The battery contains lead and lead compounds, chemicals that are considered to cause cancer, birth defects, and other reproductive system damage. Wash your hands after touching the battery.

- Acid in the eyes can cause blindness, contact a doctor immediately.
- Be careful when servicing the battery. Explosive gases form in the battery. Never perform maintenance on the battery when smoking or near open flames or sparks. The battery can explode and cause serious injury/ damage.
- Ensure that nuts and bolts, especially the fastening bolts for the blade attachments, are properly tightened and torqued and that the equipment is in good condition.
- Do not modify safety equipment. Check regularly to be sure it works properly.
   The machine must not be driven with defective or unmounted protective plates, protective cowlings, safety switches, or other protective devices.
- Do not change the settings of governors and avoid running the engine with overly high engine speeds. If you run the engine too fast, you risk damaging the machine components.
- Sparking can occur when working with the battery and the heavy cables of the starter circuit. This can cause battery explosion, fire or eye injury. Sparking in this circuit can not occur after the chassis cable (normally negative, black) is removed from the battery.



#### WARNING!

Avoid electrical sparking and its consequences by the following routines:

Use protective goggles.

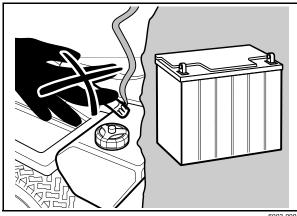
Ensure that the fuel filler cap is mounted and no flammable substances is stored in an open vessel.

Never work with the starter circuit if there is spilled fuel.

Disconnect the chassis cable from the battery first and reconnect it last.

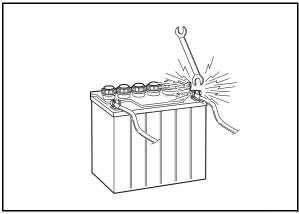
Do not make a bridge short curcuit across the starter relay to run the starter.

 Never use the machine indoors or in spaces lacking proper ventilation. The exhaust fumes contain carbon monoxide, an odorless, poisonous, and lethal gas.



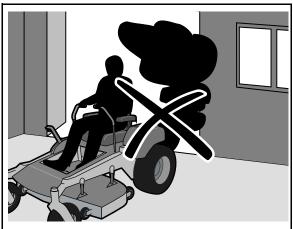
6003-00

Do not smoke when performing maintenance on the battery. The battery can explode and cause serious injury/damage



8009-72

Risk of sparking



8011-51

Never drive the machine in an enclosed space

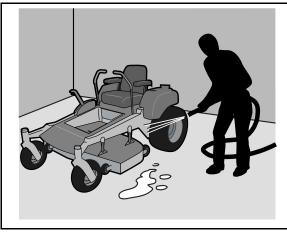
- Stop and inspect the equipment if you run over or into anything. If necessary, make repairs before starting.
- Never make adjustments with the engine running.
- The machine is tested and approved only with the equipment originally provided or recommended by the manufacturer.
- The blades are sharp and can cause cuts and gashes. Wrap the blades or use protective gloves when handling them.
- Check the parking brake's functionality regularly. Adjust and service as necessary.
- The mulch blades should only be used in familiar areas when higher quality mowing is desired.
- Reduce the risk of fire by removing grass, leaves, and other debris that may have accumulated on the machine. Allow the machine to cool before putting it in storage.
- If a hydraulic leak is suspected, use a piece of cardboard or wood, NOT your hands to check for leaks.

### **Transport**

- The machine is heavy and can cause serious crushing injuries. Be extra cautious when it is loaded on or unloaded from a vehicle or trailer.
- Use an approved trailer to transport the machine. Activate the parking brake, turn off the fuel supply, and fasten the machine with approved fastening devices, such as bands, chains, or ropes, when transporting.
- Check and abide by local traffic regulations before transporting or driving the machine on any road.
- Do not tow this machine, it may cause damage to the drive system.
- Do not tow any trailers, etc with this mower. They may jackknife or overturn causing damage to the mower and possibly serious injury to the operator.



Use protective glasses for maintenance work.



8011-644

Clean the machine regularly



#### WARNING!

Escaping hydraulic oil under pressure can have sufficient force to penetrate the skin, causing serious injury. If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immdediately.

#### IMPORTANT INFORMATION

The parking brake is not sufficient to lock the machine in place during transport. Ensure that the machine is well fastened to the transport vehicle. Always reverse the machine onto the transport vehicle to avoid tipping it over.

#### **Roll over Protection system ROPS**

The ROPS increases the basic weight of the unit by 42 lbs/19 kg. The ROPS on the US units are standard, on the European units is the ROPS an accessory.



#### WARNING!

The structures capability may be imparired by structural damage if overturned, or alteration occurs. If any of these conditions take place, the total structure MUST be replaced.

- Do not use ROPS as a lifting, attaching or anchoring point.
- Do not use ROPS for wrecking or towing.
- Do not exceed Max GVW: 2822 lbs/1283 kg.
- Read machine operator's manual before each use.
- Securely fasten your seat belt if the unit has a ROPS.
- Where possible, avoid operating the unit near ditches, embankments and holes.
- Reduce speed when turning, crossing slopes and on rough, slick or muddy surfaces.
- Stay off slopes too steep for safe operation.
- Watch where you are going, especially at row ends, on roads and around trees.
- Do not permit others to ride.
- Operate the mower smoothly no jerky turns, starts or stops.
- When mower is stopped, set brakes securely and use park brake.
- If any part of ROPS is damaged, the entire ROPS must be replaced.
- Check all bolts including seat belt for correct torque before each use.
- Check ROPS structure for damage before each use.
- ROPS bar is NOT intended for use in sub zero temperatures.

#### **Customer responsibilities**

- Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your mower.
- Follow the instructions under "Maintenance" and "Storage" sections of this owner's manual.



#### **WARNING!**

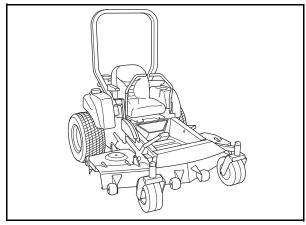
This mower is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, bush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

A spark arrester for the muffler is available through your authorized Husqvarna dealer.

### **Controls**

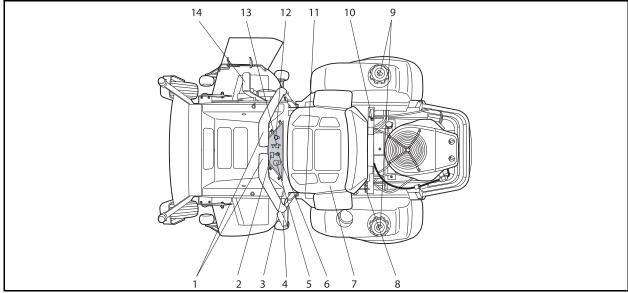
This operator's manual describes the Husqvarna Zero Turn Rider. The rider is fitted with a Kawasaki or Kohler four-stroke V-Twin engine developing 23-27 horse power.

Transmission from the engine is made via two belt-driven hydraulic pumps, which in turn drive a hydraulic motor for each drive wheel. Using the left and right steering controls, the flow is regulated and thereby the direction and speed.



8011-464

Zero Turn Rider



8011-76

Locations of the controls

### **Control Locations**

		Page			Page
1.	Motion control, levers	16	8.	Seat locking device	19
2.	Hour meter	17	9.	Fuel tank cap	19
3.	Tracking knob	17	10.	Fuel shut off valve	20
4.	Parking brake	17	11.	Seat adjustment lever	20
5.	Blade-switch	18	12.	Choke control	20
6.	Ignition switch	18	13.	Throttle control	21
7.	Fuses	18	14.	Cutting height adjuster	21

#### 1. Motion Control Levers

The machine's speed and direction are continuously variable using the two steering controls. The steering controls can be moved forward or backward about a neutral position. Furthermore, there is a neutral position, which is locked if the steering controls are moved outward.

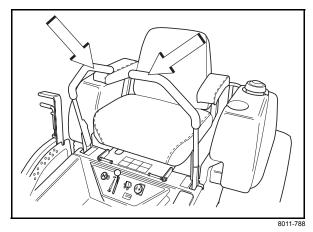
When both controls are in the neutral position (N), the machine stands still.

By moving both controls an equal amount forward or backward, the machine moves in a straight line forward or backward respectively.

In order, for example, to turn right while moving forward, move the right control towards the neutral position. The rotation of the right wheel is reduced and the machine turns to the right.

Zero turn can be achieved by moving one control backward (behind the neutral position) and carefully moving the other steering control forward from its neutral position. The rotation direction when zero turning is determined by which steering control is moved backward behind the neutral position. If the left steering control is pulled backward, the machine turns to the left. Use extra care when using this maneuver.

If the steering controls are in uneven positions when standing still they can be adjusted using the adjustment screws on the steering lever, not the link system, for the controls.

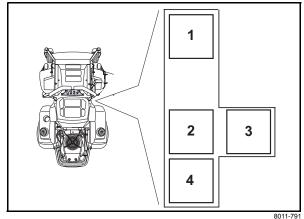


Steering controls



#### WARNING!

The machine can turn very rapidly if one steering control is moved much further forward than the other.



- 2 Neutral

Forward

1

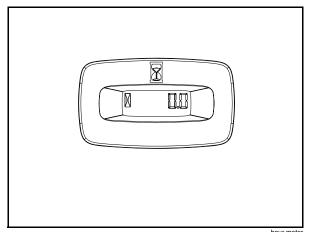
- 3 Neutral slot, Neutral lock
- 4 Reverse

Motion control lever pattern (right side)

#### 2. Hour Meter

The hour meter displays the total operating time.

It will flash CHG OIL (Change Oil) at 50 hour intervals. The flash duration is one hour before and one hour after the interval. The CHG OIL icon will come on and shut off automatically. The hour meter can not be manually reset.



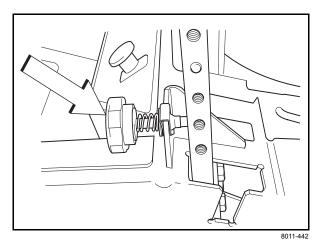
Hour I

Hour meter

### 3. Tracking knob

The tracking knob is located in front of the left control lever. Rotating this knob allows fine tuning adjustments so that the machine tracks straight with the drive levers in the full forward position.

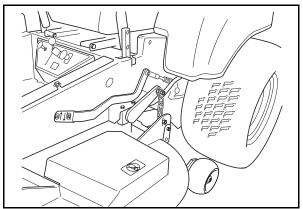
Rotate the knob clockwise (as viewed from the operating position) to increase the speed or counter clockwise to decrease the speed on the left control lever. Example: If control levers are full forward and the unit turns to the right, turn the tracking knob counter clockwise to decrease the speed on the left control lever.



Tracking knob

### 4. Parking Brake

The parking brake is found on the left of the machine. Pull the lever backward to activate the brake and forward to release it.

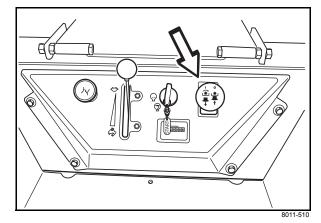


Parking brake not activated

8011-51

#### 5. Blade switch

In order to engage the mower deck, pull the knob out; the mower blades are disengaged when the knob is depressed.



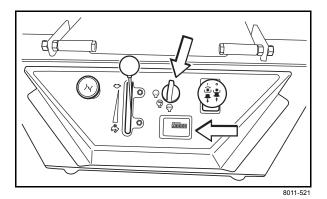
Blade Switch

### 6. Ignition Switch

The ignition key is placed on the driver's panel and is used to start and stop the engine.

#### IMPORTANT INFORMATION

Do not run the starter for more than five seconds each time. If the engine does not start, wait about 10 seconds before retrying.



Ignition key and hour meter

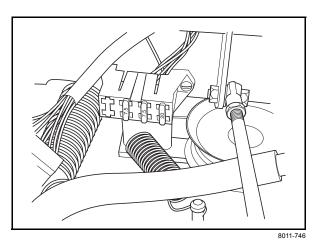
#### 7. Fuses

The fuses are located in a holder to the left of the hydraulic tank. They are flat pin fuses of the same type used in automobiles.

There are three fuses, as well as socket for one spare fuse.

Fuse ratings and functions:

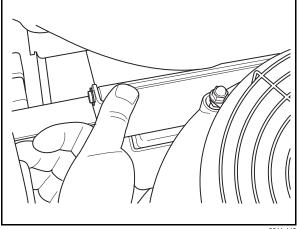
- 20 A, Primary fuse.
- 7.5 A, Mower deck coupling.
- 7.5 A, Accessory outlet
- · Socket for spare fuse.



Fuses

#### 8. Seat Locking Device

Under the rear part of the seat is a locking device that locks the seat into its folded position. The seat has a linked fixture at the front edge and can be folded forward when the locking device is pushed.



The seat's locking device

8011-440

#### 9. Refueling

The machine has two fuel tanks, one on each side just behind the seat. The tanks take 5.7 gallons (22 liters) each.

The engine will run on a minimum of 87-octane unleaded gasoline (no oil mix). Environmentally adapted alkylate gasoline can be used beneficially. See also Technical Data concerning methanol and ethanol fuels.



#### **WARNING!**

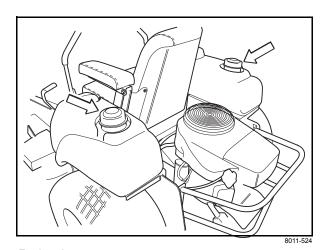
Gasoline is highly flammable.
Observe caution and fill the tank outdoors
(see the safety rules).



#### **WARNING!**

Fill to bottom of filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

When operating in temperatures below 32° F. (0° C.), use fresh, clean winter grade gasoline to help insure good cold weather starting.



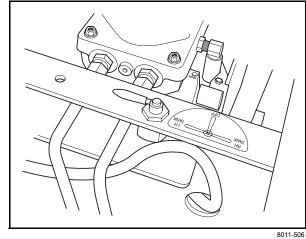
Fuel tanks

#### **IMPORTANT INFORMATION**

**Experience indicates that alcohol** blended fuels (called gasohol, ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel the next season. See Storage Instructions for additional information. **Never use engine or carburetor cleaners** in the fuel tank or permanent damage may occur.

#### 10. Fuel Shut Off Valve

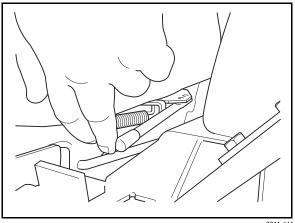
The fuel shut off valve is located at the right rear of the seat. The valve has three positions; right tank, left tank and center is the off position.



Fuel shut off valve

### 11. Seat Adjustment Lever

The seat can be adjusted lengthways. When making adjustments, the lever under the front edge of the seat is moved to the left (as seen by the driver in the seat), after which the seat can be moved backward or forward.



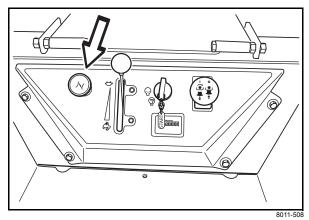
Lengthways adjustment

8011-441

#### 12. Choke Control

The choke control is used for cold starts in order to provide the engine with a richer fuel mixture.

For cold starts the control should be pulled out.



Choke control

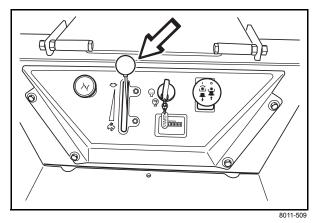
#### 13. Throttle Control

The throttle control regulates the engine speed and thereby the rate of rotation of the blades, assuming the blade switch is pulled out, see Engaging the Mower Deck.

In order to increase or decrease the engine speed, the control is moved downward or upward respectively.

Avoid idling the engine for long periods, as there is a risk of fouling the spark plugs.

USE FULL THROTTLE WHEN MOWING, for best mower performance and battery charging.



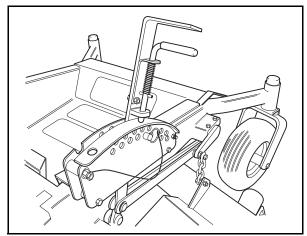
Throttle control

### 14. Lifting Lever for the Mower Deck

The lifting lever is used to place the mower deck in the transport position or one of the 17 different cutting height positions.

The cutting height is set by placing a peg in the hole for the desired cutting height and the peg is then locked on the inside (hidden in the illustration) with the supplied pin.

- Pull the lever backward to the locked position to engage the transport position. The deck is then raised.
- 2. Depress the lock handle, counter hold, and move the lifting lever forward toward the peg to engage the set cutting height. The deck is then lowered.
- The lifting lever can also be used to temporarily adjust the cutting height. such as when passing a minor bump in the lawn.



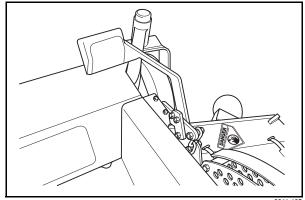
The mower deck's lifting lever

#### IMPORTANT INFORMATION

In order to obtain an even cutting height it is important that the air pressure in all four tires is the same 15 psi (1 bar).

#### **Cutting height pedal**

On some models there is a deck assist lift pedal to aid in the lifting of the deck.



Cutting height pedal

8011-46

### Pump release valves

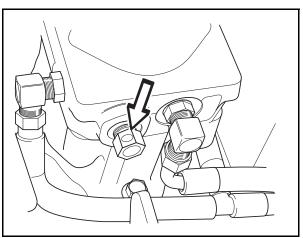
#### IMPORTANT INFORMATION

Only rotate valve 1/4 - 1/2 turn to release system.

Tighten the valve moderately.

Do not overtighten the valve when closing. That can damage the valve seat.

Pump release valves are located at the pumps. They are used to release the system so the machine may be moved by hand when not running. Tilt seat forward to gain access to the pumps. Use a 5/8" wrench to open valve.

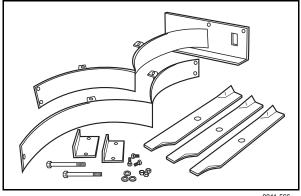


Pump release valve

8011-507

#### **Accessories**

For mulching, there is a BioClip attachment available. This is mounted underneath the mower deck and consists of control plates and BioClip blades.



BioClip attachment

8011-566

### **Operation**

Read "Safety Instructions" on page 7 and following pages, if you are unfamiliar with the machine.

#### **Training**

Zero turn mowers are far more manueverable than typical riding mowers due to their unique steering capabilities.

We recommend that this section be reviewed in its entirety prior to attempting to move the mower under its own power. Additionally, we suggest when first operating mower, use a reduced throttle speed and reduced ground speed by NOT moving control levers to the furthest forward or reverse positions during initial operation, or until operator becomes comfortable with controls. We also suggest first time users, or new users to ZeroTurn mowers to become familiar with the mowers movement on a hard surface, such as concrete or blacktop PRIOR to attempting to operate on turf. Until operator becomes comfortable with mower controls and zero turning capability, they may damage turf due to over aggressive maneuvers.

#### To move forward and backward

The direction and speed of the mowers movements is effected by the movement of the control lever(s) on each side of mower. The left control lever controls the left wheel motor. The right control lever controls the right wheel motor.

#### IMPORTANT INFORMATION

When control levers are in the reverse position they return to neutral when released. This may cause the mower to suddenly stop.

First time users should push mower (see "Moving by Hand" on page 33) to an open, flat area, without other people or vehicles/obstacles near by. In order to move unit under its own power, the operator must be in the seat, start engine (see "Before Starting" on page 24), adjust engine speed to idle, disengage park brake, do not engage blades at this time, rotate control levers inward. As long as the control levers have not been moved forward or backwards, mower will not move. Slowly move both control levers forward slightly, this will allow mower to start moving forward in a straight line. Pull back on control levers to the neutral position and mower should stop moving. Pull back slightly on control levers, this will allow mower to start moving backwards. Push forward on control levers to the neutral position and mower should stop moving.

#### To turn to the right

While moving in a forward direction, pull the right lever back towards the neutral position while maintaining the position of the left lever, this will slow the rotation of the right wheel and cause the machine to turn in that direction.

#### To turn to the left

While moving in a forward direction pull the left lever back towards the neutral position while maintaining the position of the right lever, this will slow the rotation of the left wheel and cause the machine to turn in that direction.

#### To zero turn

While moving in a forward direction, first pull both control levers back until the mower stops or slows dramatically. Then by alternating one lever slightly to the forward position and the other in the reverse position.

#### Roll bar and safety belt

Operate the unit with the roll bar in the raised and locked position and use the seat belt. There is no rollover protection when the roll bar is down. If it is necessary to lower roll bar, do not wear the seat belt. Raise the roll bar as soon as clearance permits.

### **Before Starting**

- Read the sections Safety Instructions and Controls before starting the machine.
- Perform the daily maintenance before starting (see Maintenance Schedule in the Maintenance section).
- Check that there is sufficient fuel in the fuel tanks.
- Adjust the seat to the desired position.

The following conditions must be fulfilled before the engine can be started:

- the driver must be seated on the seat,
- the blade switch for engaging the mower blades must be depressed,
- · the parking brake must be on,
- both steering controls must be in the locked (outer) neutral position.

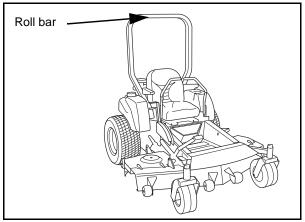
### Starting the Engine

- 1. Sit on the seat.
- Raise the mower deck by pulling the lifting lever backward to the locked position (transport position).
- 3. Activate the parking brake.



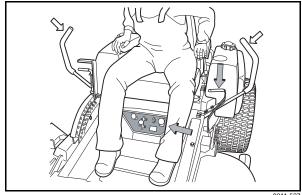
#### WARNING!

The seat belt must be used when the roll bar is in upright position.

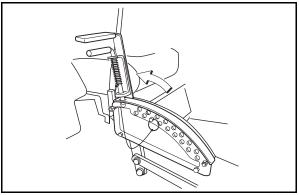


8011-46

Roll bar in upright position



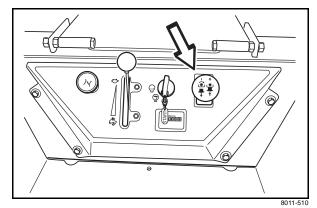
Start conditions



8011-55

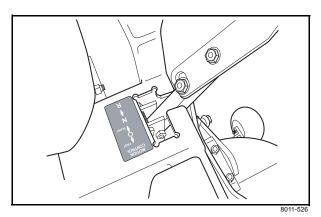
Raise the mower deck

4. Disengage the mower blades by depressing the blade switch.



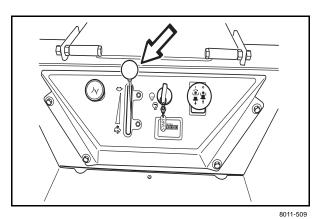
Depress the control for disengaging the mower deck

5. Move the steering controls outward to the locked (outer) neutral position.



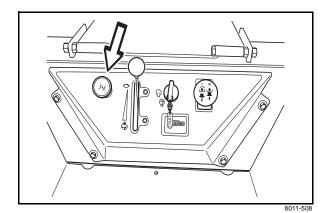
Steering controls in the outward, locked neutral position

6. Move the throttle to the middle position.



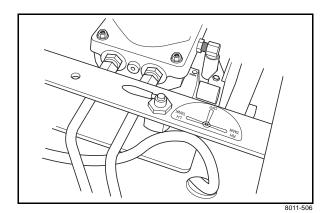
Set the throttle

7. If the engine is cold, the choke control should be pulled out to its extents.



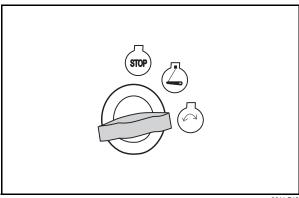
Set the choke control

8. Open the fuel valve for the selected fuel tank.



Open the fuel valve

9. Press in and turn the ignition key to the start position.

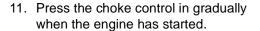


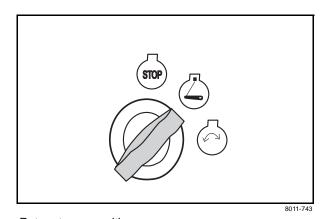
Turn to the start position

10. When the engine starts, immediately release the ignition key back to the run position.

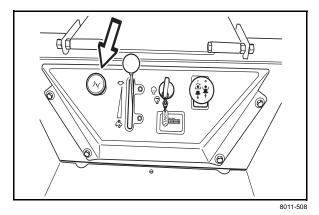
#### IMPORTANT INFORMATION

Do not run the starter for more than 5 seconds each time. If the engine does not start, wait about 10 seconds before re-trying.





Return to run position



Gradually press in the choke control

12. Set the desired engine speed with the throttle.

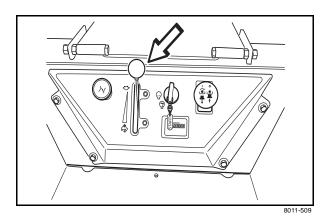
Allow the engine to run at a moderate speed, "half throttle", for 3-5 minutes before loading it too heavily.

**USE FULL THROTTLE WHEN** MOWING.



#### WARNING!

Never run the engine indoors, in enclosed or poorly ventilated spaces. Engine exhaust fumes contain poisonous carbon monoxide.



Set the engine speed

### To start an engine with a weak battery



#### WARNING!

Lead-acid batteries generate explosive gases. Keep sparks, flame and smoking materials away from batteries. Always wear eye protection when around batteries.

If your battery is too weak to start the engine, it should be recharged. (See "Battery" on page 36).

If "jumper cables" are used for emergency starting, follow this procedure:

#### IMPORTANT INFORMATION

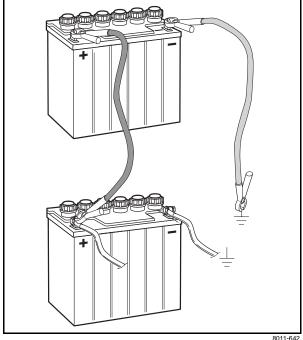
Your mower is equipped with a 12-volt negative grounded system. The other vehicle must also be a 12-volt negative grounded system. Do not use your mower battery to start other vehicles.

#### To attach jumper cables

- Connect each end of the RED cable to the POSITIVE (+) terminal on each battery, taking care not to short against chassis.
- Connect one end of the BLACK cable to the NEGATIVE (-) terminal of the fully charged battery.
- Connect the other end of the BLACK cable to a good CHASSIS GROUND on the mower with the discharged battery, away from the fuel tank and battery.

#### To remove cables, reverse order

- Remove BLACK cable first from chassis and then from the fully charged battery.
- Remove RED cable last from both batteries.



Jumper cables connection

#### Running

- Release the parking brake by moving the lever forward.
  - Your mower is equipped with an operator presence system. When the engine is running, any attempt by the operator to leave the seat without first setting the park brake will shut off the engine.
- 2. Move the steering controls to the neutral position (N).
- 3. Select the cutting height by placing the peg in one of the holes. Lock the peg on the inside with the pin.
- 4. Press in the stop handle, counter hold, and carefully move the lifting lever forward from the transport position toward the peg.

#### IMPORTANT INFORMATION

The mower deck's anti-scalp rollers should be evenly adjusted.

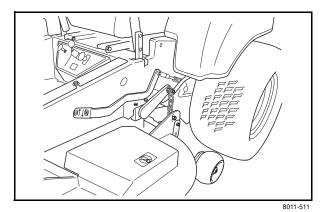


#### WARNING!

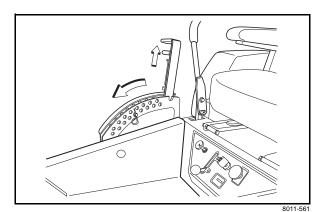
Ensure that no one is near the machine when engaging the Blade switch.

- Engage the mower deck by pulling out the blade switch.
- 6. Move the throttle control to full throttle.
- The machine's speed and direction are continuously variable using the two steering controls. When both controls are in the neutral position, the machine stands still.

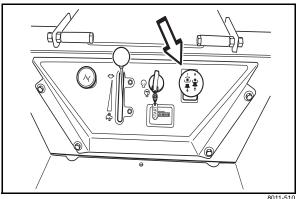
By moving both controls an equal amount forward or backward, the machine moves in a straight line forward or backward respectively.



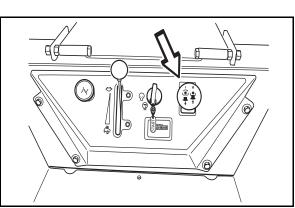
Released parking brake



Cutting height selection



Engaging the mower deck



In order, for example, to turn right while moving forward, move the right control towards the neutral position. The rotation of the right wheel is reduced and the machine turns to the right.

Turning on the spot can be achieved by moving one control backward (behind the neutral position) and carefully moving the other steering control forward from its neutral position.

#### Operating on hills

Read the Safety Instructions "Driving on Slopes" on page 9.



#### **WARNING!**

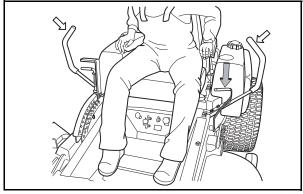
Do not drive up or down hills with slopes greater than 10 degrees. And do not drive across any slopes.

- The slowest speed possible should be used before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If stopping is absolutely necessary, pull drive levers into the neutral position and push to the outside of the unit and engage the park brake.

#### IMPORTANT INFORMATION

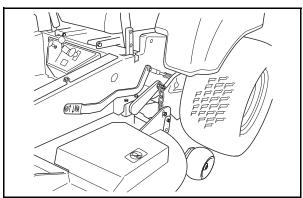
Control levers return to neutral when released. This may cause the mower to suddenly stop.

- To restart movement, release the park brake.
- Pull the control levers back to the center of the mower and press forward to regain forward motion.
- Make all turns slowly.



Stopping conditions





8011-511

Released parking brake

#### **Mowing Tips**

- Observe and flag rocks and other fixed objects to avoid collisions.
- Begin with a high cutting height and reduce it until the desired mowing result is attained.

The average lawn should be cut to 2 1/2" (64 mm) during the cool season and over 3" (76 mm) during the hot months. For healthier and better looking lawns, mow often after moderate growth.

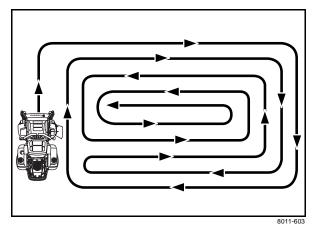
For best cutting performance, grass over 6" (15 cm) in height should be mowed twice. Make the first cut relatively high; the second to the desired height.

- The mowing result will be best with a high engine speed (the blades rotate rapidly) and low speed (the rider moves slowly). If the grass is not too long and dense, the driving speed can be increased without negatively affecting the mowing result.
- The finest lawns are obtained by mowing often. The lawn becomes more even and the grass clippings more evenly distributed over the mown area. The total time taken is not increased as a higher operating speed can be used without poor mowing results.
- Avoid mowing wet lawns. The mowing result is poorer because the wheels sink into the soft lawn, clumps build, and the grass clippings fasten under the cowling.
- Hose the mower deck underside with water after each use. When cleaning, the mower deck shall be raised into the transport position. Make sure the mower is cooled and the engine is off.
- Use compressed air to clean top surface of the deck. Avoid flooding water on top surface.
- When the mulching kit is used, it is important that the mowing interval is frequent.



#### WARNING!

Clear the lawn of stones and other objects that can be thrown out by the blades.



Mowing patterns



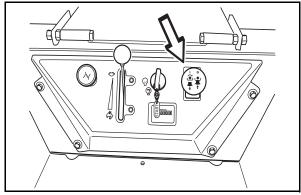
#### **WARNING!**

Never drive the rider on terrain that slopes more than 10°. Mow slopes up and down, never side-to-side. Avoid sudden directional changes.

### **Stopping the Engine**

Allow the engine to idle a minute in order to attain normal operating temperature before stopping it, if it has been worked hard. Avoid idling the engine for longer periods, as there is a risk of the spark plugs fouling.

 Disengage the mower deck by depressing the blade switch.



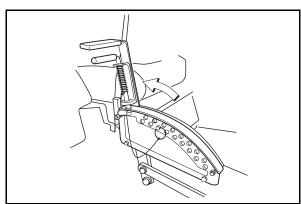
8011-510

Disengage the mower deck

- Raise the mower deck by pulling the lifting lever backward to the transport position.
- 3. When the machine is standing still, activate the parking brake by pulling the lever backward.
- 4. Move the throttle to the minimum position (tortoise symbol). Turn the ignition key to the stop position. Never use choke to stop engine.
- 5. Move the steering controls outward.
- Remove key. Always remove key when leaving the mower to prevent unauthorized use.



Leaving the ignition switch in any other position than "OFF" will cause the battery to be discharged.



8011-552

Raise the mower deck with the lifting lever

### **Moving by Hand**

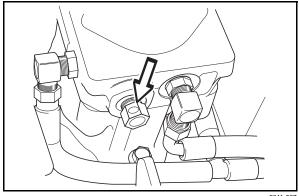
In order for the machine to be moved with the engine turned off, the vent screws on both hydraulic pumps must be opened 1/4-1/2 turn.



#### **WARNING!**

Make no adjustments without:

- the engine stopped,
- the ignition key removed,
- the parking brake activated.



Vent screw on the hydraulic pump

8011-507

# **MAINTENANCE**

### **Maintenance**

#### **Maintenance Schedule**

The following is a list of maintenance procedures that must be performed on the machine. For those points not described in this manual, visit an authorized service workshop. An annual service carried out by an authorized service workshop is recommended to maintain your machine in the best possible condition and to ensure safe operation.

Read Safety Instructions section "Maintenance" on page 11.

- Described in this manual
- O = Not described in this manual

		Daily mainte- nance		Weekly mainte- nance	At least once	Maintenance interval in hours			
Maintenance	Page	Before	After		each year	25	50	100	300
Check the parking brake	44	•							
Check the engine's oil level (every refueling)	55	•							
Check the hydraulic system's oil level	51	•							
Check the safety system	38	•							
Check for fuel and oil leakages	-	O							
Check rubber valve for sand trap	41		•						
Check/clean the engine's cooling air intake	40		•						
Check the mower deck	45		•						
Check hardware (screws, nuts, etc.)	49		•						
Clean under the mower deck	49		•						
Start the engine and blades, listen for unusual sounds	-		O						
Check for damage	-		O						
Thoroughly clean around the engine	-		0						
Thoroughly clean around the hydraulic system	-		O						
Clean around belts, belt pulleys, etc.	-		O						
Check the tire pressures	44					•			
Check battery	36					•			
Sharpen/Replace mower blades	45					•			
Check the fuel pump's air filter 2)	43					•			
Clean the engine's cooling air intake 2)	40				•	•			
Clean cyclon air filter dust cap	41				•	•			
Check/adjust the parking brake	-				O		0		
Inspect muffler/Spark arrester	-				O		0		

		Dai main nan	ite-	Weekly mainte- nance	At least once	Mair	in h	ce inte	erval
Maintenance	Page	Before	After		each year	25	50	100	300
Check/adjust throttle and choke cables	40							•	
Check the condition of belts, belt pulleys, etc.	44				•			•	
Change the engine oil 1)	55				•			•	
Replace the engine oil filter (every 200 hours)	60				•			•	
Clean/replace the spark plugs	37				•			•	
Replace the fuel filter	43				•			•	
Replace the air filter (main cartridge) <sup>2)</sup> (every 200 hours)	42				•			•	
Check the caster wheels (every 200 hours)	49							•	
Clean the cooling fins <sup>2)</sup>	-				O			O	
Clean fins of oil cooler (Kohler)					•			•	
Check/adjust the mower deck	47				•				•
Change the hydraulic oil (every 300 hours)	-				0				O
Replace the hydraulic oil filter (every 300 hours)	-				O				O
Dismantle and inspect starter <sup>4)</sup> (every 500 h)									O
Check the engine valve clearance <sup>4)</sup>	-				O				O
Perform the 300-hour service <sup>4)</sup>	77				O				C
Lubricate according to Lubrication Schedule	50		•	•	•	•	•	•	•

<sup>1)</sup> First change after 8 hours. When operating with a heavy load or at high ambient temperatures, replace every 50 hours. 2) In dusty conditions, cleaning and replacement are required more often. 3) For daily use, the machine should be lubricated twice weekly. 4) Performed by authorized service workshop.

- = Described in this manual
- O = Not described in this manual



#### **WARNING!**

No adjustments or maintenance to be carried out unless:

- The engine is stopped.
- The ignition key has been removed.
- The parking brake is on.

### **Battery**

Your mower is equipped with a maintenance free battery and does not need servicing. However, periodic charging of the battery with an automotive type battery charger will extend its life.

- Keep battery and terminals clean.
- Keep battery bolts tight.
- Recharge at 6-10 amperes for 1 hour.

#### To clean battery and terminals

Corrosion and dirt on the battery and terminals can cause the battery to "leak" power.

- 1. Lift seat and rotate forward.
- 2. Remove the red terminal guard.
- Disconnect BLACK battery cable first, then the RED battery cable and remove the battery from the machine.
- Rinse the battery with plain water and dry.
- 5. Clean terminals and battery cable ends with wire brush until shiny.
- 6. Coat terminals with grease or petroleum jelly
- 7. Reinstall battery.

#### Replacing battery

- 1. Lift seat and rotate forward.
- 2. Remove the red terminal guard.
- Using two 1/2" wrenches disconnect BLACK battery cable then RED battery cable.
- 4. Remove the knobs and remove battery hold downs.
- 5. Carefully remove the battery from the mower.
- 6. Install new battery with terminals in the same position as the old battery.
- 7. Reinstall battery hold downs.
- 8. First connect RED battery cable to positive (+) battery terminal with hex bolt and hex nut.



Always use protective glasses when handling the battery.

#### IMPORTANT INFORMATION

Do not attempt to open or remove caps or covers. Adding or checking level of electrolyte is not necessary.

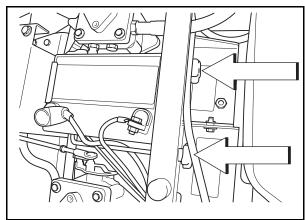
Always use two wrenches for the terminal screws.



#### WARNING!

Do not short battery terminals by allowing a wrench or any other object to contact both terminals at the same time. Before connecting battery, remove metal bracelets, wristwatch bands, rings, etc.

Positive terminal must be connected first to prevent sparks from accidental grounding.



8011-466

Battery installation

- Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt and hex nut.
- 10. Fit the terminal guard.
- 11. Lower seat.

#### **Ignition System**

The engine is equipped with an electronic ignition system. Only the spark plugs require maintenance.

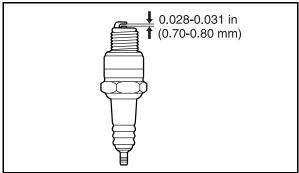
For recommended spark plugs, see Technical Data.

- Remove the ignition cable boot and clean around the spark plug.
- 2. Remove the spark plug with a spark plug socket wrench.
- Check the spark plug. Replace the spark plug if fouled, the electrodes are burned and if the insulation is cracked or damaged. Clean the spark plug with a steel brush if it is to be reused.
- Measure the electrode gap with a gapping tool. The gap should be .030" (0.75 mm). Adjust as necessary by bending the side electrode.
- 5. Reinsert the spark plug, turning by hand to avoid damaging the threads.
- After the spark plug is seated, tighten it using a spark plug wrench so that the washer is compressed. A used spark plug should be turned 1/8 of a turn from the seated position. A new spark plug should be turned 1/4 a turn from the seated position.
- 7. Replace the ignition cable.

#### IMPORTANT INFORMATION

Fitting the wrong spark plug type can damage the engine.

Inadequately tightened spark plugs can cause overheating and damage the engine. Tightening the spark plugs too hard can damage the threads in the cylinder head.



8011-054

Measure the electrode gap

### **Checking the Safety System**

The machine is equipped with a safety system that prevents starting or driving under the following conditions.

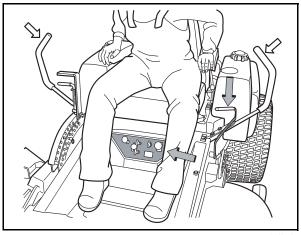
The engine can only be started when:

- 1. The mower deck is disengaged.
- 2. The steering controls are in the outer, locked neutral position.
- 3. The driver is sitting in the driver's seat.
- 4. The parking brake is on.

Make daily inspections to ensure that the safety system works by attempting to start the engine when one of the conditions is not met. Change the conditions and try again. If the machine starts when one of these conditions is not met, turn the machine off and repair the safety system before using the machine again.

Make sure the engine stops when the park brake is not engaged and the operator leaves the seated position.

Check that the engine stops if the mower blades are engaged and the driver temporarily stands up.

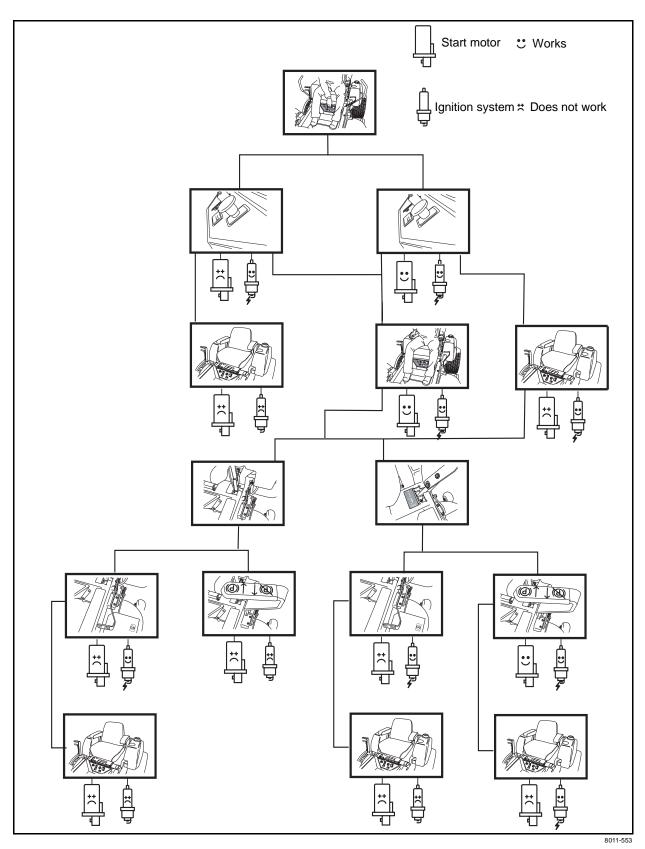


Conditions for starting

8011-527

#### **IMPORTANT INFORMATION**

In order to be able to drive, the driver must sit in the seat and release the parking brake before the steering controls can be moved into the neutral position, otherwise the engine will stop.



Safety system

### **Checking the Engine's Cooling Air Intake**

Check that the engine's cooling air intake is free from leaves, grass, and dirt. If the cooling air intake is clogged, engine cooling deteriorates, which can lead to engine damage.

### **Checking and Adjusting the Throttle Cable**

The illustations show Kawasaki engine. On Kohler engine the cables are mounted under the air filter housing. The throttle cable on Kohler must be mounted in the middle hole. The text is applicable for both engines.

Check that the engine responds to throttle increases and that a good engine speed is attained at full throttle.

If doubts arise, contact the service workshop. If adjustments are necessary, they can be made as follows for the lower cable:

- 1. Loosen the clamping screw for the cable's outer casing and move the throttle to the full throttle position.
- 2. Check that the throttle cable is mounted in the correct hole in the lower lever, see illustration.
- 3. Push the throttle cable's outer casing as far to the left as possible and tighten the clamping screw.

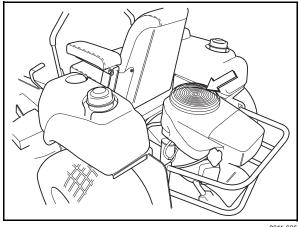
#### **Checking and Adjusting the Choke** Cable

Kohler engine: See remarks above.

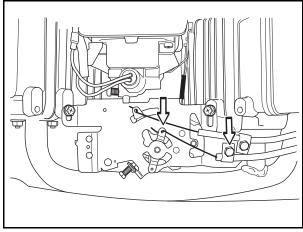
If the engine produces black smoke or is difficult to start, this can be because the choke cable is incorrectly adjusted (upper cable).

If doubts arise, contact the service workshop. If adjustments are necessary, they can be made as follows:

- Loosen the clamping screw for the cable's outer casing and move the choke lever to the full choke position.
- 2. Check that the choke cable is mounted in the upper lever, see illustration. Push the choke cable's outer casing as far to the right as possible and tighten the clamping screw.

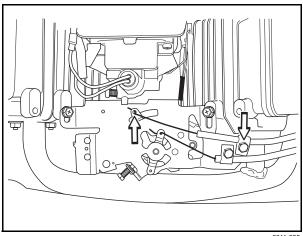


Check and clean the cooling air intake



8011-554

Adjusting the throttle cable



Adjusting the choke cable

#### Cyclon air filter maintenance

If the engine seems weak or runs unevenly, the air filter may be clogged. If running with a dirty air filter, the spark plugs can become fouled.

For this reason, it is important to replace the air filter regularly (see the heading Maintenance Schedule for the proper service interval).



#### WARNING!

Allow the exhaust system to cool before performing service. Risk for burns.

Cleaning/replacing the air filter is carried out as follows:

#### IMPORTANT INFORMATION

Do not used compressed air to clean the air filter.

Do not wash the paper filter.

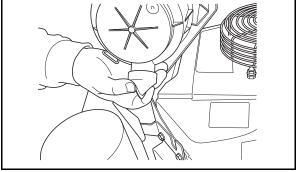
Do not oil the paper filter.

#### **Dust cap**

Check the dust cap every day by pressing the rubber valve with two fingers to let out the dirt.

#### IMPORTANT INFORMATION

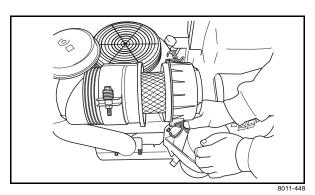
The end cover must be installed with the rubber valve pointing downwards, otherwise the rubber valve will not function.



Pressing the rubber valve

8011-447

Clean the dust cap by removing the end cover of the the air cleaner and clean inside.



Removing the end cover

#### Filter replacement

- Remove the end cover.
- Remove the main filter (outer filter) by pulling it out by hand.
- Remove the inner filter by pulling it out by hand.
- 4. Clean inside of the filter housing. Wipe dry only.
- 5. Install the inner filter with the open end first. Ensure that it enters its recess at the end of the housing and push it in to the end.
- 6. Install the main filter with the open end first. Ensure that it enters its recess at the end of the housing and push it in to the end.

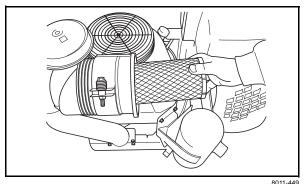
#### IMPORTANT INFORMATION

The end cover must be installed with the rubber valve pointing downwards, otherwise the rubber valve will not function.

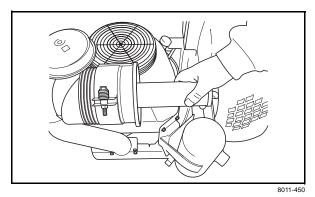
Turn the end cover with the rubber valve pointing downwards and install it.

#### Air filter indicator (optional)

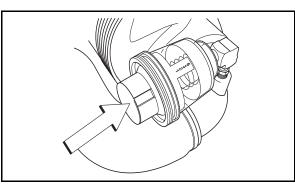
Change the main filter when the yellow piston is hanging at the top of the cylinder. To reset the indicator, push on the button (arrow) at the cylinder. A number of pushes may be required. If it indicates soon after a main filter replacement, change the inner filter.



Removing the main filter



Removing the inner filter



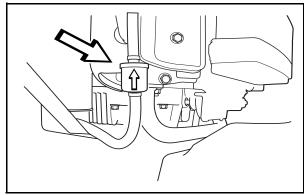
Air filter indicator

#### Replacing the Fuel Filter

Replace the line-mounted fuel filter every 100 hours (once per season) or more often if it becomes clogged.

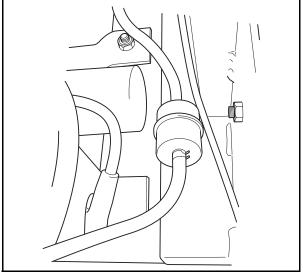
Replace the filter as follows:

- 1. Move the hose clamps away from the filter. Use flat-nosed pliers.
- 2. Pull the filter loose from the hose ends.
- Push the new filter into the hose ends.
   Position the filter with the "FLOW" arrow pointing up toward the fuel pump. If necessary, a soap solution can be applied to the filter ends to ease mounting.
- 4. Move the hose clamps back toward the filter.



8009-146

Fuel filter Kawasaki



Fuel filter Kohler

8011-468

### **Checking the Fuel Pump's Air Filter**

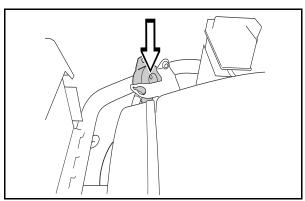
Regularly check that the fuel pump's air filter is free from dirt.

On Kohler engine, removal of the pump screws is not needed, due to the filter facing outwards.

Remove the screws and open the pump, no hoses need be removed.

The filter can be cleaned with a brush if necessary.

Replace the filter on the console.

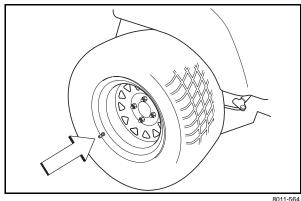


8009-147

The fuel pump's air filter

### **Checking Tire Pressures**

All four tires should have a pressure of 15 psi / 103 kPa / 1 bar.



Tire pressures

### **Checking the Parking Brake**

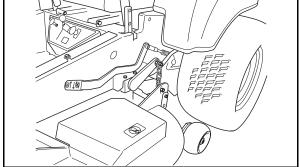
Visually check that no damage is found on the lever, links, or switch belonging to the parking brake. Perform a test drive and check that there is sufficent braking action.

To adjust the parking brake, contact the Husqvarna service workshop.



#### **WARNING!**

Faulty adjustment can cause an accident.



8011-511

#### The parking brake in the disengaged position

### **Checking the V-belts**

#### Deck belt

Check every 100 hours of operation. Check for severe cracking and large nicks.

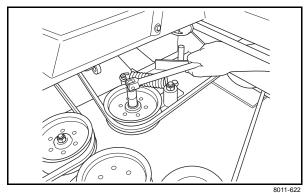
NOTE: The belt will show some small cracks in normal operation.

To replace belt lower the deck to its lowest position. Remove the foot plate and belt shields.

Use a ratchet with a 9/16" socket on the spring idler bolt to relieve the tension on the belt. Slide the belt off of pulley and remove the belt.

Reverse the proceedure for installation. See the decal on the top of deck for belt routing information.

After installation is complete check the belt for twists.



Slackening the belt tensioner

Belt routing, deck belt

#### Pump belt

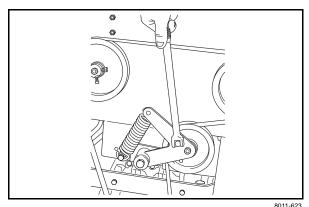
Check belt every 100 hours for excessive wear.

To replace belt. Relieve tension on the deck belt and remove deck belt from clutch. See "Deck belt" on page 44. Loosen bolt on the clutch tie down and rotate out of the way.

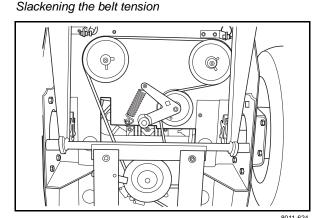
Using a 1/2" drive ratchet inserted into the square hole in the pump idler arm relieve the tension on the pump belt and remove belt.

To reinstall belt: Swing pump idler pulley toward engine to route belt around it. Then route belt around the pulley for left pump first (right hand pulley in the illustration).

Reinstall idler spring and use the ratchet to rotate idler so the belt may be installed all the way around the last pulley.



. . . . .



Belt routing, hydraulic pumps

# **Checking the Blades**

In order to attain the best mowing performance, it is important that the blades are well sharpened and not damaged.



Always use protective gloves when handling the blades.

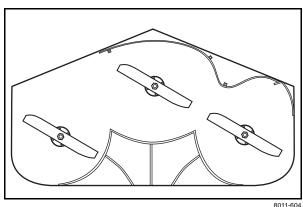
Bent or cracked blades or blades with large nicks should be replaced.

Check the blade mounts.

#### IMPORTANT INFORMATION

The sharpening of blades should be carried out by an authorized service workshop.

Damaged blades should be replaced when hitting obstacles that result in a breakdown. Let the service workshop decide whether the blade can be repaired/ground or must be discarded.



Check the blades

8011-60

#### Blade replacement:



#### **WARNING!**

Blades are sharp. Protect your hands with gloves and/or wrap blades with a heavy cloth when handling.

 Remove blade bolt by turning counterclockwise.

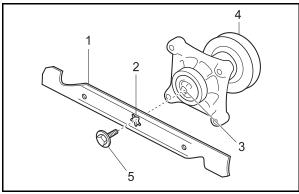
#### IMPORTANT INFORMATION

To ensure proper assembly, center hole in blade must align with star on cutter housing.

- Install new or re-sharpened blade with stamped "GRASS SIDE" facing towards ground/grass (down) or "THIS SIDE UP" facing deck and cutter housing.
- Install and tighten blade bolt securely.
   Torque blade bolt to 90 ft/lbs (122 Nm).

#### IMPORTANT INFORMATION

Special blade bolt is heat treated. Replace with a Husqvarna bolt if required. Do not use lower grade hardware than specified.



8011-671

- 1. Blade
- 2. Center hole
- 3. Star
- 4. Cutter housing
- 5. Blade bolt (special)

Blade attachment, principal

#### **Adjusting the Mower Deck**

#### WARNING!

Before performing any service or adjustment checklist:

- 1. Engage the parking brake.
- 2. Place the blade-switch in the disengaged position.
- 3. Turn ignition switch to "OFF" position and remove the key.
- 4. Make sure the blades and all moving parts have completely stopped.
- 5. Disconnect the spark plug wire from all spark plugs and place the wire where it cannot come in contact with the plug.

#### Leveling

- 1. Position the mower on a level, preferably concrete, surface.
- 2. Check the pressure in all four tires. See "Technical Data" on page 66.
- 3. Raise the mower on lengths of 2" x 4" placed edgewise under the cutting deck from front to rear (see diagram).
- 4. Lower the deck onto the 2" x 4"'s. The rear of the deck is approxemately 1/4" deeper than the front. This gives the deck a proper pitch front to back when lowered onto the 2" x 4" guides.
- 5. Set the cutting height to 4".
- 6. Adjust the four lower chain bolts so that they are centered in the oblong slots.
- 7. Move the lifting lever and check that all the chains are equally tensioned. If they are not, adjust the appropriate lower chain bolt in its slot.

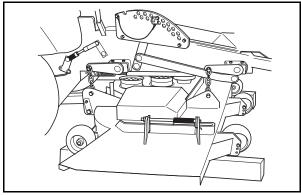
#### **Adjusting Cutting Height**

- 1. Raise and secure the deck height lever to the transport position (6").
- 2. Position blade tip so it is straight forward.
- Measure from the cutting edge of the blades to a flat level surface. The distance should be 6" (150 mm).
- 4. Drop and secure the lever at (for example) the 2" cutting height. Measure as above. The distance should be 2" (50 mm).



#### WARNING!

Blades are sharp. Protect your hands with gloves and/or wrap blades with a heavy cloth when handling.



8011-601

Leveling the mower deck, hang chain version

#### To adjust anti-scalp rollers

Anti-scalp rollers are properly adjusted when they are just slightly off of the ground when the deck is at the desired cutting height in the operating position. Anti-scalp rollers then keep the deck in the proper position to help prevent scalping in most terrain conditions.

IMPORTANT INFORMATION

Adjust Anti-scalp rollers with the mower on a flat level surface.

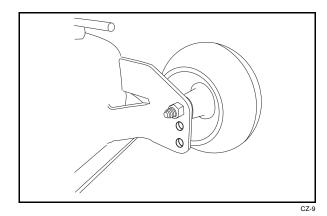
The anti-scalp rollers can be set in three positions:

- Upper position 1.5" to 3"/38 to 76 mm grass.
- Middle position 3" to 4.5"/76 to 114 mm grass.
- Lower position 4.5" to 6"/114 to 152 mm grass.

The rollers should be approximately 1/4"/6.5 mm from ground. Do not adjust the rollers to support the deck.

#### IMPORTANT INFORMATION

The anti-scalp rollers must not be used for gauge wheels or the roller and deck may be damaged.

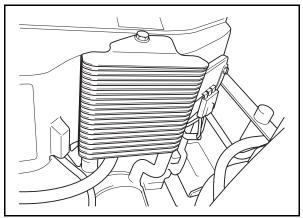


Anti-scalp roller

# Engine oil cooler

Kohler engine only.

- 1. Clean the outside of fins with a brush.
- 2. Remove the two screws holding the cooler unit to the blower housing.
- 3. Tilt the cooler downward.
- 4. Clean the inside of the cooler with a brush or with compressed air.
- 5. Reinstall the oil cooler to the blower housing.



Engine oil cooler

8011-47

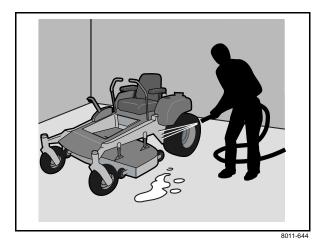
#### **Cleaning and Washing**

Regular cleaning and washing, especially under the mower deck, will increase the machine's lifespan. Make it a habit to clean the machine directly after use (after it is cooled), before the dirt sticks.

Do not spray water on the top of the mower deck. Use compressed air to clean the top side of mower deck.



Use protective glasses when cleaning and washing.



Cleaning

#### **Caster Wheels**

Check every 200 hours. Lift front of unit off of ground so caster wheels can rotate freely. Tighten caster bolt (34) then back off 1/2 turn. Check that wheel rotates freely. If wheel does not rotate freely back the caster bolt off in 1/4 turn increments until wheel rotates freely.

#### IMPORTANT INFORMATION

DO NOT add any type of tire liner or foam fill material to the tires. Excessive loads created by foam filled tires will cause premature failures.

Only use O.E.M. specified tires.

26 27 28 30 31 35 36 36 36

Caster wheels

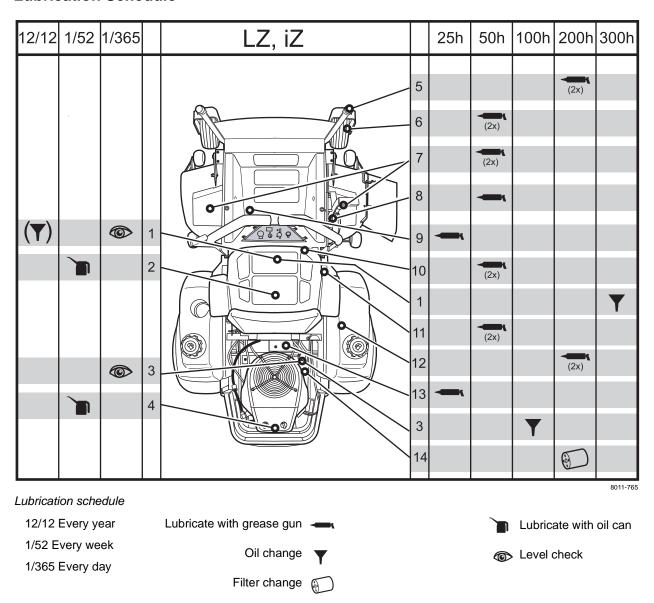
Foam filled tires or solid tires will void the warranty.

#### **Hardware**

Check daily. Inspect the entire machine for loose or missing hardware.

#### Lubrication

#### **Lubrication Schedule**



#### General

Remove the ignition key to prevent unintentional movements during lubrication.

When lubricating with an oil can, it must be filled with engine oil.

When lubricating with grease, unless otherwise stated, use a high grade molybdenum disulfide grease.

For daily use, the machine should be lubricated twice weekly.

Wipe away excess grease after lubrication.

It is important to avoid getting lubricant on the belts or the drive surfaces on the belt pulleys. Should this happen, attempt to clean them with spirits. If the belt continues to slip after cleaning, it must be replaced. Gasoline or other petroleum products must not be used to clean belts.

#### **Lubricating the Cables**

If possible, grease both ends of the cables and move the controls to end stop positions when lubricating. Refit the rubber covers on the cables after lubrication. Cables with sheaths will bind if they are not lubricated regularly. If a cable binds, it can disrupt operation.

If a cable binds, remove the cable and hang it vertically. Lubricate it with light engine oil until the oil begins to escape from the bottom.

Tip: Fill a small plastic bag with oil and tape it so that it seals against the sheath and allow the cable to hang vertically from the bag overnight. If you do not succeed in lubricating the cable, it must be replaced.

### **Shaft Bushings and Linkage**

Lubricate the bearing of the shafts and linkage for brake system and steering with oil spray or oil can.

### Lubricating in Accordance with the Lubrication Schedule

#### 1. Hydraulic System, Oil Level

The hydraulic oil and filter must be replaced every 300 hours, and at least once a year. Contact an authorized service workshop.

Check the oil level in the hydraulic tank daily. The level shall be about 3/4"-1" (19 - 25 mm) below the top of the tank.

Check connections, hoses, and tubes for damage or leaks. Replace or repair if doubtful.

#### **Changing Oil and Filters**

Oil and filter changes should be carried out by an authorized service workshop due to the risk of impurities enter the system.

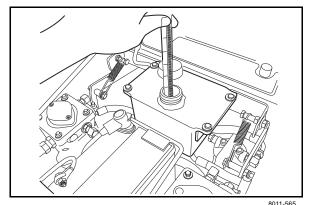
#### 2. Driver's Seat

Tip the seat.

Lubricate the front hinges using an oil can.

Lubricate the lengthways adjustment mechanism with the oil can.

Lubricate the lengthways adjustment runners with the oil can.



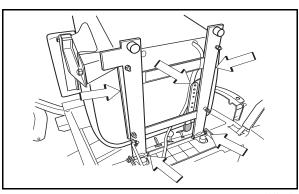
.

Checking the hydraulic oil



#### WARNING!

If a leak is suspected, use a piece of cardboard or wood, NOT your hands, to check for leaks.
Escaping hydraulic oil under pressure can have sufficient force to penetrate the skin, causing serious injury.
If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper meical treatment is not administered immediately.



8011-57

Lubricating the lengthways adjuster under the seat

#### 3. Engine Oil, Kohler Engine

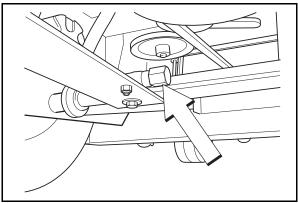
#### **Changing the Engine Oil**

Change oil after every 100 hours of operation (more frequently under severe conditions). Refill with service class SG, SH, SJ or higher oil as specified in the Viscosity Grades table on page 54.

Change the oil while the engine is still warm. The oil will flow more freely and carry away more impurities. Make sure the engine is level when filling, checking or changing the

#### Change the oil as follows:

- 1. To keep dirt, debris, etc., out of the engine, clean the area around the oil fill cap/dipstick before removing it.
- 2. Remove the oil drain plug and the oil fill cap/dipstick. Be sure to allow ample time for complete drainage.
- 3. Reinstall the drain plug. Make sure it is tightened to 10 ft. lb. (13.6 Nm) torque.
- 4. Fill the crankcase, with new oil of the proper type, to the "FULL" mark on the dipstick. Refer to Oil Type, page 54. Always check the level with the dipstick before adding more oil.
- 5. Reinstall the oil fill cap/dipstick and tighten securely.



Oil drainage plug Kohler

#### IMPORTANT INFORMATION

To prevent extensive engine wear or damage, always maintain the proper oil level in the crankcase. Never operate the engine with the oil level below the "ADD" mark or over the "FULL" mark on the dipstick.

6. Start the engine. Run it for a few seconds and recheck the oil level.

#### IMPORTANT INFORMATION

Used engine oil is a health hazard and must not be disposed of on the ground or in nature; it should always be disposed of at a workshop or appropriate disposal location.

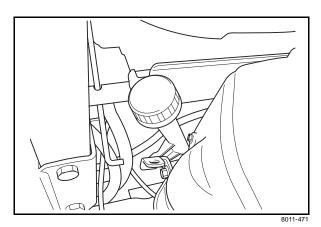
Avoid skin contact; wash with soap and water in case of spills.

#### **Checking the Oil Level**

The importance of checking and maintaining the proper oil level in the crankcase cannot be overemphasized.

Check oil before each use as follows:

- Make sure the engine is stoped. level, and cool so the oil has had time to drain into the oil pan.
- To keep dirt, debris, etc., out of the engine, clean the area around the dipstick before removing it.
- Unthread and remove the dipstick; wipe oil off. Reinsert the dipstick into the tube and rest the cap on the tube. Do not thread the cap onto the tube.
- Pull the dipstick out and check the oil level. The oil level should be up to, but not over, the "FULL" mark on the dipstick.

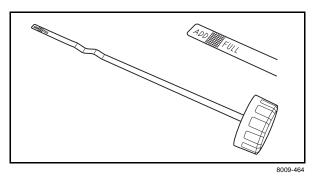


Oil dipstick

5. If the level is low, add oil of the proper type, up to the "FULL" mark on the dipstick. Refer to *Oil Type*, page 54. Always check the level with the dipstick before adding more oil.

#### IMPORTANT INFORMATION

To prevent extensive engine wear or damage, always maintain the proper oil level in the crankcase. Never operate the engine with the oil level below the "ADD" mark or over the "FULL" mark on the dipstick.



Level marking

#### Oil Recommendations

Using the proper type and weight of oil in the crankcase is extremely important. So is checking oil daily and changing oil regularly. Failure to use the correct oil, or using dirty oil, causes premature engine wear and failure.

#### Oil Type

Use high quality detergent oil of API (American Petroleum Institute) service class SG, SH, SJ or higher. Select the viscosity based on the air temperature at the time of operation.

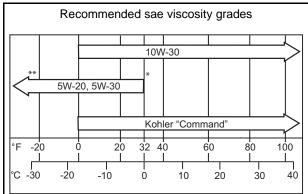
#### IMPORTANT INFORMATION

Using other than service class SG, SH, SJ or higher oil or extending oil change intervals longer than recommended can cause engine damage.

#### **IMPORTANT INFORMATION**

Synthetic oils meeting the listed classfications may be used with oil changes performed at the recommended intervals. However to allow piston rings to properly seat, a new or rebuilt engine should be operated for at least 50 hours using standard petroleum based oil before switching to synthetic oil.

A logo or symbol on oil containers identifies the API service class and SAE viscosity grade.



Temperature range expected before next oil change

- Use of synthetic oil having 5W-20 or 5W-30 rating is acceptable, up to 40 °F (+4 °C).
- \*\* Synthetic oils will provide better starting in extreme cold below -10 °F (-23 °C).

8011-766

Viscosity grades table

#### 3. Engine Oil, Kawasaki Engine

#### **Changing the Engine Oil**

The engine oil shall be changed for the first time after 8 hours of operation. Thereafter, it should be changed every 100 hours.

#### **WARNING!**

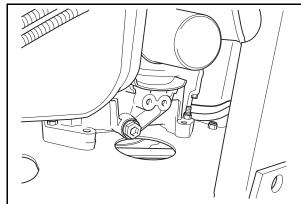
Engine oil can be very hot if it is drained directly after stopping the engine. Allow the engine to cool somewhat first.

- Place the machine on a flat surface.
- Place a container under the engine drain
- 3. Remove the dipstick and open the drain plug.
- 4. Allow the oil to run out into the container.
- Install and tighten the oil drain plug.
- Replace the oil filter if necessary. 6.
- 7. Fill with new engine oil in accordance with Checking the Oil Level.
- 8. Start the engine. Run it for a few seconds. Stop and re-check the oil level.

#### IMPORTANT INFORMATION

Used engine oil is a health hazard and must not be disposed of on the ground or in nature; it should always be disposed of at a workshop or appropriate disposal location.

Avoid skin contact; wash with soap and water in case of spills.



Oil drain plug Kawasaki

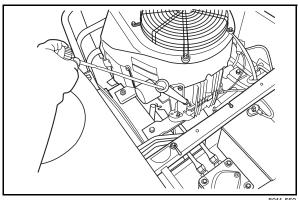
#### **Checking the Oil Level**

Check the oil level in the engine when the machine is standing level and the engine is stopped.

Remove the dipstick, wipe it clean, and then replace it.

The dipstick should **not** be screwed into place.

Take the dipstick out again and read the oil level.



Remove the dipstick

The oil level shall lie between the markings on the dipstick. If the level is approaching the "ADD" mark, top up the oil to the "FULL" mark on the dipstick.

Never fill above the "FULL" mark.

The oil is filled through the hole for the dipstick.

Use engine oil SAE 30 or SAE 10W-30 or, alternately, 10W/40, class SC–SJ (over +32  $^{\circ}$ F/0  $^{\circ}$ C).

Over +68 °F /+20 °C SAE 40 can be used.

Use engine oil SAE 5W-20, class SC-SJ (under +32 °F/0 °C).

The engine holds 1.6 qt/1.5 liters of oil excluding the filter (including filter 1.8 qt/1.7 liters).

# 4. Throttle and Choke Cables, Lever Bearings

Lubricate the cable ends by the carburetor with the oil can. Move the controls to the end points and lubricate again.

The throttle cable is also lubricated by the control when the control console is removed.

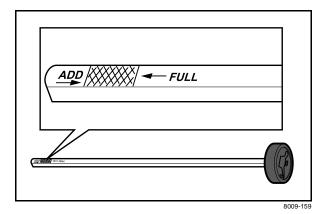
The illustration shows the Kawasaki engine. On Kohler engine the cables are placed under the air filter housing.

#### 5. Front Wheel Mount

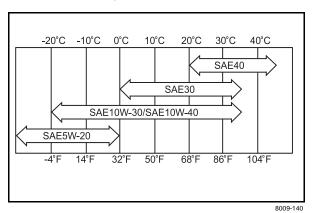
Lubricate with a grease gun, one zerk for each wheel mount, until the grease is forced out.

Use only good quality molybdenum disulphide grease.

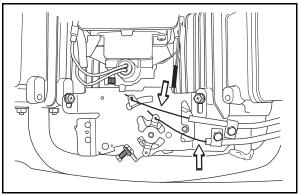
Grease from well-known brand names (petrochemical companies, etc.) usually maintains a good quality.



The dipstick markings



Engine oils



Throttle and choke cables by the carburetor

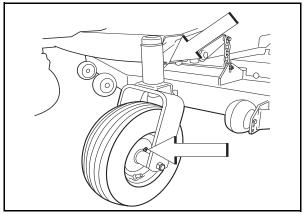
8011-605

#### 6. Front Wheel Bearings

Lubricate with a grease gun, one zerk for each set of wheel bearings, until the grease is forced out.

Use only good quality molybdenum disulphide grease.

Grease from well-known brand names (petrochemical companies, etc.) usually maintains a good quality.

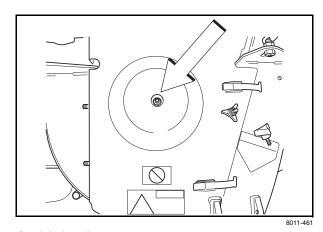


8011-57

Lubricating the front wheels

#### 7. Deck belt pulleyes

Lubricate with a grease gun two strokes.



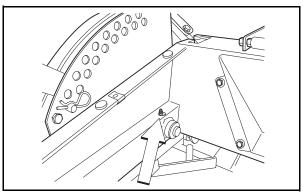
Deck belt pulley

#### 8. Mower Deck Height Adjuster

Lubricate using a grease gun, one zerk, until the grease squeezes out.

Use only good quality molybdenum disulphide grease.

Grease from well-known brand names (petrochemical companies, etc.) usually maintains a good quality.



8011-574

Lubricating the cutting height adjuster

#### 9. Belt Adjuster, Mower Deck

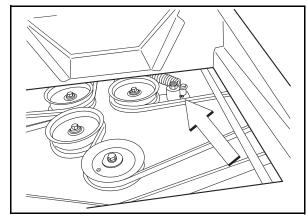
Remove the foot plate (two screws) and lubricate with a grease gun, one zerk, until grease is forced out.

Use only good quality molybdenum disulphide grease.

Grease from well-known brand names (petrochemical companies, etc.) usually maintains a good quality.

#### IMPORTANT INFORMATION

Use minimal lubrication and remove excess lubricant so that it does not come into contact with belts or belt pulley drive surfaces.



The belt adjuster grease nipple

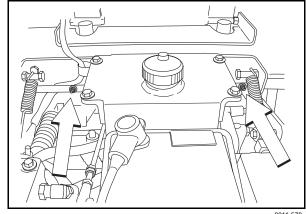
#### 10. Steering Control Shafts

Tip the driver's seat.

Lubricate with a grease gun, one zerk for each steering control shaft, until the grease is forced out.

Use only good quality molybdenum disulphide grease.

Grease from well-known brand names (petrochemical companies, etc.) usually maintains a good quality.



8011-578

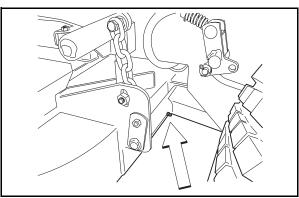
Lubricating the steering control shafts

#### 11. Mower Deck Struts

Lubricate with a grease gun, one zerk for each strut, until the grease is forced out.

Use only good quality molybdenum disulphide grease.

Grease from well-known brand names (petrochemical companies, etc.) usually maintains a good quality.



8011-577

Lubricating struts

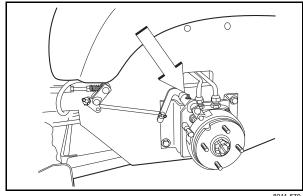
#### 12. Brake Arms

Remove one rear wheel at a time (four screws).

Lubricate with a grease gun, one zerk for each brake arm, until the grease is forced out.

Use only good quality molybdenum disulphide grease.

Grease from well-known brand names (petrochemical companies, etc.) usually maintains a good quality.



Lubricating brake arms

8011-579

#### IMPORTANT INFORMATION

Use minimal lubrication and remove excess lubricant so that is does not come into contact with the brake band.

#### 13. Belt Adjuster, Hydraulic Pumps

Lubricate using a grease gun, one zerk, until the grease squeezes out.

Use only good quality molybdenum disulphide grease.

Grease from well-known brand names (petrochemical companies, etc.) usually maintains

a good quality.

8011-575

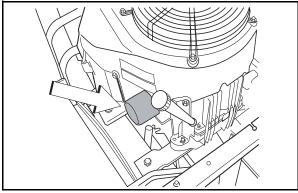
#### **IMPORTANT INFORMATION**

Use minimal lubrication and remove excess lubricant so that is does not come into contact with belts or belt pulley drive surfaces.

Lubricating the belt adjuster

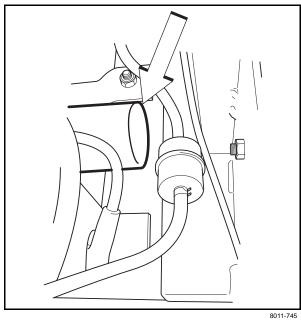
#### 14. Changing the Oil Filter

- 1. Drain the engine oil in accordance with the work description under the heading Engine Oil/Change Engine Oil.
- Remove the oil filter. If necessary, use a filter remover.
- Wipe new, clean engine oil onto the seal for the new filter.
- Mount the filter by hand with + 3/4 turn.
- Run the engine warm, then check that 5. there are no leaks around the oil filter seal.
- 6. Check the oil level in the engine, top up if necessary. The oil filter holds 0.2 qt (0.2 liters) of oil.



Changing the oil filter Kawasaki





Changing the oil filter Kohler

# TROUBLE SHOOTING GUIDE

# **Trouble Shooting Guide**

Problem	Cause	
The engine will not start.	<ul> <li>The blade switch is engaged.</li> <li>The steering controls are not locked in the neutral position.</li> <li>The driver is not sitting in the driver's seat.</li> <li>The parking brake is not activated.</li> <li>The battery is dead.</li> <li>Contamination in the carburetor or fuel line.</li> <li>The fuel supply is closed or the tap</li> </ul>	
	for the fuel tanks is in the wrong position.  • Clogged fuel filter or fuel line.	
The starter does not turn the engine over.	<ul> <li>Dead battery.</li> <li>Poor contacts on the battery terminal cable connections.</li> <li>Fuse blown.</li> <li>Ignition system faulty.</li> <li>Fault in the starter safety circuit. See Checking the Safety System on page 38.</li> </ul>	
The engine runs rough.	<ul> <li>Faulty carburetor.</li> <li>The choke control is pulled out with a warm engine.</li> <li>Defective valves.</li> <li>Defective piston, cylinder, piston ring, or cylinder head seal.</li> <li>The cylinder head bolts are loose.</li> <li>Clogged fuel filter or jet.</li> <li>Clogged ventilation valve on the fuel cap.</li> <li>Fuel tank nearly empty.</li> <li>Defective spark plugs.</li> <li>The spark plugs are loose.</li> <li>Defective ignition cable.</li> <li>Defective spark plug electrode.</li> <li>Defective spark plug connection.</li> <li>Rich fuel mixture or fuel-air mixture.</li> </ul>	

TROUBLE SHOOTING GUIDE		
	Water in the fuel.     Clarged air filter.	
	Clogged air filter.	
The engine seems weak.	Clogged air filter.	
	<ul> <li>Defective spark plugs.</li> </ul>	
	Carburetor incorrectly adjusted.	
The engine overheats.	Clogged air intake or cooling fins.	
	Engine overloaded.	
	<ul> <li>Poor ventilation around engine.</li> </ul>	
	<ul> <li>Defective engine speed regulator.</li> </ul>	
	<ul> <li>Soot in the combustion chamber.</li> </ul>	
	<ul> <li>Too little or no oil in the engine.</li> </ul>	
	<ul> <li>Defective spark plugs.</li> </ul>	
	Pre-ignition incorrect.	
Battery not charging.	<ul> <li>Poor contact with battery terminal cable connectors.</li> </ul>	
The machine moves slowly, unevenly,	Parking brake on.	
or not at all.	<ul> <li>Bypass valve on pump open.</li> </ul>	
	<ul> <li>Drive belt for the pump slack or has come off.</li> </ul>	
	<ul> <li>Defective hydraulic system.</li> </ul>	
	Air in the hydraulic system.	
Mower deck not engaging.	Drive belt for the mower deck has come loose.	
	<ul> <li>Contact for the electromagnetic coupling has loosened.</li> </ul>	
	<ul> <li>The blade switch is faulty or has come loose from the cable contact.</li> </ul>	
	The fuse has blown.	

# TROUBLE SHOOTING GUIDE

Uneven mowing results.	<ul> <li>Different air pressure in the tires on the left and right sides.</li> <li>Bent blades.</li> </ul>
	<ul> <li>The chains for suspending the mower deck are uneven.</li> </ul>
	The chain fixture has come loose.
	The blades are blunt.
	Driving speed too high.
	The grass is too long.
	Grass collected under the mower deck.
The machine vibrates.	The blades are loose.
	The blades are incorrectly balanced.
	The engine is loose.

# **STORAGE**

### **Storage**

### **Winter Storage**

At the end of the mowing season, the machine should be readied for storage (or if it will not be in use for longer than 30 days). Fuel allowed to stand for long periods of time (30 days or more) can leave sticky residues that can plug the carburetor and disrupt engine function.

Fuel stabilizers are an acceptable option as regards sticky residues during storage.

Add stabilizer to the fuel in the tank or in the storage container. Always use the mixing ratios specified by the manufacturer of the stabilizer. Run the engine for at least 10 minutes after adding the stabilizer so that it reaches the carburetor. Do not empty the fuel tank and the carburetor if you have added stabilizer.



#### **WARNING!**

Never store an engine with fuel in the tank indoors or in poorly ventilated spaces where fuel vapor can come in contact with open flames, sparks, or a pilot light such as in a boiler, hot water tank, clothes drier, etc. Handle the fuel with care. It is very flammable and careless use can cause serious personal injury and property damage. Drain the fuel into an approved container outdoors and far away from open flame. Never use gasoline for cleaning. Use a degreaser and warm water instead.

To ready the machine for storage, follow these steps:

- Thoroughly clean the machine, especially under the mower deck. Touch up damage to the paint and spray a thin layer of oil on the underside of the mower deck to avoid corrosion.
- Inspect the machine for worn or damaged parts and tighten any nuts or screws that may have become loose.
- 3. Change the engine oil; dispose of properly.
- Empty the fuel tanks or add a fuel stabilizer. Start the engine and allow it to run until the carburetor is drained of fuel or the stabilizer has reached the carburetor.
- Remove the spark plugs and pour about a tablespoon of engine oil into each cylinder.
   Turn over the engine so that the oil is evenly distributed and then refit the spark plugs.
- 6. Lubricate all grease nipples, joints, and axles.
- Remove the battery. Clean, charge, and store the battery in a cool place, but protect it from direct cold.
- Store the machine in a clean, dry place and cover it for extra protection.

#### **Service**

When ordering spare parts, please specify the purchase year, model, type, and serial number.

Always use genuine Husqvarna spare parts.

An annual check-up at an authorized service workshop is a good way to ensure that your machine performs its best the following season.

# **WIRING DIAGRAMS**

# Wiring diagram

- 6. Seat unoccupied
- 11. Brake switch OFF pos.

YEL/RED

BLK

PUR

ORG

**DRG/WHT** 

WHT

WHT WHT

WHT

7.5 AMP

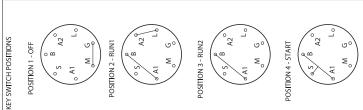
BLU

BLK BLK

10

7.5 AMP

- 8. Blade switch in OFF position
- 14-15. Motion control levers OUT



YEL

PUR

GRY

GRN

LT. BLU

GRN

ORG

20 AMP

RED/BLK

- KEY SWITCH POSITIONS
- 1. Battery
- 2. Accessory outlet
- 3. Key switch
- 4. To engine pigtail
- 5. Hour meter
- 6. Seat switch
- 7. Run relay
- 8. Blade switch
- 9. Brake relay
- 10. Electric clutch
- 11. Brake switch
- 12. Start relay
- 13. Strarter solenoid
- 14. Left motion control lever
- 15. Right motion control lever

BLK = Black

BLU = Blue

BRN = Brown

GRN = Green

GRY = Grey

LT.BLU = Light Blue

ORG = Orange

PUR = Purpur

RED = Red

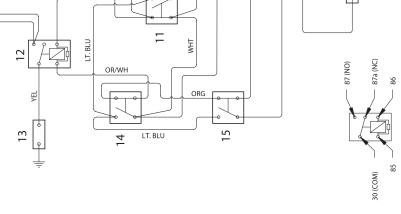
WHT = White

YEL = Yellow

NO = Normally Open

NC = Normally Closed

COM = Common



8011-650

# **Technical Data**

	LZ5225TKAA	LZ6123LTKOA	LZ6125TKAA
Engine			
Manufacturer	Kawasaki	Kohler	Kawasaki
Туре	FH721V	LV675S	FH721V
Power	25 hp / 18.4 kW	23 hp / 16.9 kW	25 hp / 18.4 kW
Lubrication	Pressure with oil filter	Pressure with oil filter	Pressure with oil filter
Oil capacity excl filter	1.6 qt / 1.5 liters	1.9 qt / 1.05 liter	1.6 qt / 1.5 liters
Oil capacity incl filter	1.8 qt / 1.7 litres	2.0 qt / 2.2 liter	1.8 qt / 1.7 litres
Engine oil (See viscocity digram)	SAE 10W30, 10W40 SAE 30, SAE 40 API SF-SJ	SAE 10W30 API SG-SJ	SAE 10W30, 10W40 SAE 30, SAE 40 API SF-SJ
Fuel	Min 87 octane unleaded (Max metha- nol 5%, max ethanol 10%, Max MTBE 15%)	Min 87 octane unleaded (Max etyhl alcohol 10%, Max MTBE 15%)	Min 87 octane unleaded (Max methanol 5%, max ethanol 10%, Max MTBE 15%)
Fuel tank capacity	11.4 gallons / 43 liters	11.4 gallons / 43 liters	11.4 gallons / 43 liters
Spark plugs / gap	NGK BPR4ES .030" / 0.75 mm	Champion RC12YC .030" / 0.75 mm	NGK BPR4ES .030" / 0.75 mm
Cooling	Air-cooled	Liquid-cooled	Air-cooled
Air filter	Heavy duty canister	Standard	Heavy duty canister
Alternator	12 V 15 A	12 V 15 A	12 V 15 A
Starter	Electric	Electric	Electric
Transmission			
Transmission	Hydro gea	ar Ross / Dual pumps, Wheel	drive motors
Speed and direction controls		Dual levers, foam gripped	
Speed forward	0-10 mph / 16.1 km/h	0-10 mph / 16.1 km/h	0-10 mph / 16.1 km/h
Speed reverse	0-4 mph / 0-6 km/h	0-5 mph / 0-8 km/h	0-5 mph / 0-8 km/h
Brakes	Hydrostatic/brake linings		
Front caster tires, Smooth tread	13x6.50-6 Tubeless	13x6.50-6 Tubeless	13x6.50-6 Tubeless
Rear tires, Turf pneumatic	24x12.00-12 Tubeless	24x12.00-12 Tubeless	24x12.00-12 Tubeless
Tire pressure, front and rear	15 PSI / 103 kPa / 1 bar	15 PSI / 103 kPa / 1 bar	15 PSI / 103 kPa / 1 bar
Hydraulic reservoir + system	3 qt / 2.8 liter	3 qt / 2.8 liter	3 qt / 2.8 liter
Hydraulic oil	Full synthetic 15W-50	Full synthetic 15W-50	Full synthetic 15W-50

	LZ5225TKAA	LZ6123LTKOA	LZ6125TKAA
Equipment			
Cutting width	52" / 132 cm	61" / 155 cm	61" / 155 cm
Cutting height	1.5"- 6" / 3.8 - 15.5 cm	1.5"- 6" / 3.8 - 15.5 cm	1.5"- 6" / 3.8 - 15.5 cm
Uncut circle	0	0	0
Number of blades	3	3	3
Blade length	18" / 457 mm	21" / 533 mm	21" / 533 mm
Blade tip speed	18,600 fpm / 94.2 m/s	18,200 fpm / 92.2 m/s	18,200 fpm / 92.2 m/s
Anti-scalp rollers	6-adjutable	6-adjutable	6-adjutable
Frame construction	Steel uni-frame	Steel uni-frame	Steel uni-frame
Ball beared wheels	Yes	Yes	Yes
Sprung standard seat	Standard High-Back	Standard High-Back	Standard High-Back
Hinged armrests	Yes	Yes	Yes
Hour meter	Digital with service intervals		
Blade engagement	200 ft/lb Warner Mag-stop Electromagnetic clutch		
Deck construction	7 Gauge tunnel and sides, 10 Gauge top and spindle reinforcement		
Productivity			
Productivity	4.3 acres/h / 17415 m <sup>2</sup> /	5.1 acres/h / 20655 m <sup>2</sup> /	5.1 acres/h / 20655 m <sup>2</sup> /
Overall dimensions			
Weight	1030 lbs / 468 kg	1060 lbs / 481 kg	1060 lbs / 481 kg
Base maschine lenght	81" / 206 cm	82" / 208 cm	82" / 208 cm
Base machine width	53" / 135 cm 62" / 158 cm 62" / 158 cr		62" / 158 cm
Base machine height	42" / 107 cm	43" / 109 cm 43" / 109 cm	
Overall width, Chute up	53" / 135 cm	62" / 158 cm	62" / 158 cm
Overall width, Chute down	63" / 160 cm	74" / 188 cm	74" / 188 cm

	LZ6127TKOA	LZ7227TKOA
Engine		
Manufacturer	Kohler	Kohler
Туре	CV740S	CV740S
Power	27 hp / 19.9 kW	27 hp / 19.9 kW
Lubrication	Pressure with oil filter	Pressure with oil filter
Oil capacity excl filter	1.9 qt / 1.05 liter	1.9 qt / 1.05 liter
Oil capacity incl filter	2.0 qt / 2.2 liter	2.0 qt / 2.2 liter
Engine oil (See viscocity digram)	SAE 10W30 API SG-SJ	SAE 10W30 API SG-SJ
Fuel	Min 87 octane unleaded (Max etyhl alcohol 10%, Max MTBE 15%)	Min 87 octane unleaded (Max etyhl alcohol 10%, Max MTBE 15%)
Fuel tank capacity	11.4 gallons / 43 liters	11.4 gallons / 43 liters
Spark plugs / gap	Champion RC12YC / .030" / 0.75 mm	Champion RC12YC / .030" / 0.75 mm
Cooling	Air-cooled	Air-cooled
Air filter	Heavy duty canister	Heavy duty canister
Alternator	12 V 16 A	12 V 16 A
Starter	Electric	Electric
Transmission		
Transmission	Hydro gear Ross / Dual	oumps, Wheel drive motors
Speed and direction controls	Dual levers	, foam gripped
Speed forward	0-10 mph / 16.1 km/h	0-10 mph / 16.1 km/h
Speed reverse	0-5 mph / 0-8 km/h	0-5 mph / 0-8 km/h
Brakes	Hydrostatio	c/brake linings
Front caster tires, Smooth tread	13x6.50-6 ply	13x6.50-6 ply
Rear tires, Turf pneumatic	24x12.00-12 4 ply	24x12.00-12 4 ply
Tire pressure, front and rear	15 PSI / 103 kPa / 1 bar	15 PSI / 103 kPa / 1 bar
Hydraulic reservoir + system	3 qt / 2.8 liter	3 qt / 2.8 liter
Hydraulic oil	Full synthetic 15W-50	Full synthetic 15W-50

	LZ6127TKOA	LZ7227TKOA	
Equipment			
Cutting width	61" / 15.5 cm	72" / 183 cm	
Cutting height	1.5"- 6" / 3.8 - 15.5 cm	1.5"- 6" / 3.8 - 15.5 cm	
Uncut circle	0	0	
Number of blades	3	3	
Blade length	21" / 533 mm	25" / 635 mm	
Blade tip speed	18,200 fpm / 92.2 m/s	18250 fpm / 92.5 m/s	
Anti-scalp rollers	6-adjusable	8 rollers, 6 adjustable	
Frame construction	Steel uni-frame	Steel uni-frame	
Ball beared wheels	Yes	Yes	
Sprung standard seat	Standard High-Back	Standard High-Back	
Hinged armrests	Yes	Yes	
Hour meter	Digital with service intervals		
Blade engagement	200 ft/lb Warner Mag-stop Electromagnetic clutch		
Deck construction	7 Gauge tunnel and sides, 10 Gauge top and spindle reinforcement		
Productivity			
Productivity	5.1 acres/h/20655 m <sup>2</sup> /h	6 acres/h/24300 m <sup>2</sup> /h	
Overall dimensions			
Weight	1060 lbs / 481 kg	1140 lbs / 518 kg	
Base maschine lenght	83" / 211 cm	83" / 211 cm	
Base machine width	62" / 158 cm	73" / 185 cm	
Base machine height	43" / 109 cm	43" / 109 cm	
Overall width, Chute up	62" / 158 cm	73" / 185 cm	
Overall width, Chute down	74" / 188 cm	85" / 216 cm	

#### **Accessories**

BioClip attachment Mulch kit

Front baffle kit

Light kit

Roll Over Protection System. ROPS with seat belt. Accessory only for EC models. Standard on US models.

Collection system

### **Torque Specifications**

·Engine crankshaft bolt	50 ft/lb (67 Nm)
·Deck pulley bolts	45 ft/lb (61 Nm)
·Hydraulic tube nuts	30 ft/lb (41 Nm)
·Wheel motor hub nut	90 ft/lb (122 Nm)
·Lug nuts	75 ft/lb (100 Nm)
·Blade bolt	90 ft/lb (122 Nm)
·Standard ¼" fasteners	9 ft/lb (12 Nm)
·Standard 5/16" fasteners	18 ft/lb (25 Nm)
·Standard 3/8" fasteners	33 ft/lb (44 Nm)
·Standard 7/16" fasteners	52 ft/lb (70 Nm)
-Standard ½" fasteners	80 ft/lb (110 Nm)

When this product is worn out and no longer used, it shall be returned to the reseller or other party for recycling.

In order to implement improvements, specifications and designs can be altered without prior notification.

Note that no legal demands can be placed based on the information contained in these instructions.

Use only original parts for repairs. The use of other parts voids the warranty.

Do not modify or install non-standard equipment to the unit without consent from the manufacturer. Modifications to the unit may cause unsafe operation or damage the unit.

# **CONFORMITY CERTIFICATES**

# **Conformity Certificates**

### **USA** requirements

Labels are placed on the engine and/or in the engine compartment stating that the machine will fulfill the requirements. This is also applicable to special requirements for any of the states, (Californian emission rules etc.). Do not remove any of these labels. Certificates can also be supplied with the machine at delivery or written in the Engine manual. Take care of them, they are valuable documents.

# **Service Journal**

Ac	tion	Date, mtr reading, stamp, sign
De	livery Service	
1.	Charge the battery.	
2.	Mount the rear wheels.	
3.	Adjust the tire pressure of all wheels to 15 PSI (1 bar).	
4.	Mount the steering controls in the normal position.	
5.	Connect the seat fold-up stop.	
6.	Connect the cable to the safety switch under the seat.	
7.	Mount the arm rests on the seat's back support.	
8.	Check that the right amount of oil is in the engine.	
9.	Check that the right amount of oil is in the hydraulic tank.	
10.	Adjust the position of the steering controls.	
11.	Fill with fuel and open the fuel valve.	
12.	Check that the machine has no transport damage.	
13.	Start the engine.	
14.	Check that there is drive to both wheels.	
15.	Vent the hydraulic system if necessary.	
16.	Check the mower deck adjustment.	
17.	Check:	
	The safety switch for the parking brake.	
	The safety switch for the mower deck.	
	The safety switch in the seat.	
	The safety switch in the steering controls.	
	Parking brake functionality.	
	Driving forward.	
	Driving backward.	
	Engaging the blades.	
18.	Check the idle speed.	
19.	Check the engine high idle speed.	

Act	ion	Date, mtr reading, stamp, sign
20.	Inform the customer about: The need and advantages of following the service schedule. The need and advantages of leaving the machine for service every 300 hours. The effects of service and maintaining a service journal on the machine's resale value. Application areas for BioClip. Fill in the sales papers, etc.	Delivery service has been carried out.  No remaining notes.  Certified:
<b>Aft</b> 1.	er the First 8 Hours Change engine oil.	

Act	tion	Date, mtr reading, stamp, sign
25	-Hour Service	
1.	Check the fuel pump's air filter.	
2.	Check the hydraulic system's oil level.	
3.	Check the tire pressures.	
4.	Lubricate the belt adjuster, mower deck.	
5.	Lubricate the belt adjuster, hydraulic pumps.	
6.	Check/clean the engine's cooling air intake.	
7.	Clean cyclon air filter dust cap.	

Action 50-Hour Service		Date, mtr reading, stamp, sign
1.	Perform the 25-hour service.	
2.	Lubricate the front wheel bearings.	
3.	Lubricate the steering control shafts.	
4.	Lubricate the mower deck struts.	
5.	Lubricate the cutting height adjuster.	
6.	Check/adjust the parking brake.	

Acti	on	Date, mtr reading, stamp, sign
100-Hour Service		
1.	Perform the 25-hour service.	
2.	Perform the 50-hour service.	
3.	Change engine oil.	
4.	Check whether the hydraulic oil needs changing (every 300 hours).	
5.	Check whether the engine oil filter needs changing (every 200 hours).	
6.	Clean/replace the spark plugs.	
7.	Replace the fuel filter.	
8.	Clean the cooling fins on the engine and transmission.	
9.	Check V-belts.	
10.	Check tighten caster wheel axle bolts (every 200 hours).	
11.	Clean and check the need to change the air filter's paper cartridge (every 200 hours).	
12.	Clean fins of oil cooler (Kohler).	
13.	Replace air filter main cartridge.	

Action		Date, mtr reading, stamp, sign
300-Hour Service		
1.	Inspect the machine. Come to agreement with the customer as to which additional work is to be carried out.	
2.	Perform the 25-hour service.	
3.	Perform the 50-hour service.	
4.	Perform the 100-hour service.	
5.	Change the oil and filter in the hydraulic system.	
6.	Clean the combustion chamber and grind the valve seats.	
7.	Check the engine valve clearance.	
8.	Dismantle, clean and inspect starter (500 hours).	

Action		Date, mtr reading, stamp, sign
At Least Once Each Year		
1.	Clean the engine's cooling air intake (25 hours).	
2.	Replace the air cleaner's pre-filter (Oil-foam) (300 hours).	
3.	Replace the air filter's main cartridge (200 hours).	
4.	Change the engine oil (100 hours).	
5.	Replace the engine oil filter (200 hours).	
6.	Change the oil and filter in the hydraulic system (300 hours).	
7.	Check/adjust the cutting height.	
8.	Check/adjust the parking brake (50 hours).	
9.	Clean/Change the spark plugs (100 hours).	
10.	Change the fuel filter (100 hours).	
11.	Clean the cooling fins (100 hours).	
12.	Check the play in the engine valves (300 hours).	
13.	Perform the 300-hour service at an authorized service workshop.	
14.	Clean fins of oil cooler (Kohler).	
		•

Action	Date, mtr reading, stamp, sign