



## Operator Manual

LZC5225 / 965879601

LZC5227 / 965879701

LZC6130 / 965879801

LZ30 / 968999776

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



English

**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 operations or damage the unit.**

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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 components 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

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## **Congratulations**

Thank you for purchasing a Husqvarna ride-on mower. This machine is built for superior efficiency to rapidly mow primarily large areas. A control panel easily accessible to the operator and a hydrostatic transmission regulated by steering controls both contribute to the machine's performance.

This manual is a valuable document. Read the contents carefully before using or servicing the machine. The following of instructions (use, service, maintenance) by all who operate this machine is important for the safety of the operator and others. It can also considerably increase the life span of the machine and 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 provides a Service Journal. Ensure that service and repair work are documented. A well-kept service journal reduces service costs for the maintenance and affects the machine's resale value. Please contact your dealer for more information. Take the operator's manual along when the machine is taken to your dealer 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 transporting on public roads. If the machine is transported, you must always use approved fastening equipment and ensure that the machine is well anchored. DO NOT operate this machine on public roadways.

## **Towing**

If machine is equipped with a tow hitch, use extreme caution when towing. Never allow children or others in or on the towed equipment. Make wide turns to avoid jack-knifing. Travel slowly and allow extra distance to stop.

Do not tow on sloped ground. The weight of the towed equipment may cause loss of traction and loss of control.

Follow the manufacturer's recommendation for weight limits for towed equipment. Do not tow near ditches, canals, and other hazards.

## **Operating**

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

Lawn mowers 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 familiar with the machine's special characteristics and who are also knowledgeable about the safety instructions. Use only approved repair parts to maintain this machine.

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

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## 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 the manufacturing number:	Engine	Transmission

## Manufacturing Number

The machine's manufacturing number can be found on the printed plate affixed to the right side in the engine compartment. 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 have the type designation and serial number available when ordering spare parts.*

The engine's manufacturing number is stamped on one of the valve covers.

The plate states:

The engine's model.

The engine's type.

Code

*Please have these available when ordering spare parts.*

The wheel motors and hydrostatic pumps have a barcode decal affixed at the rear.

# 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!**

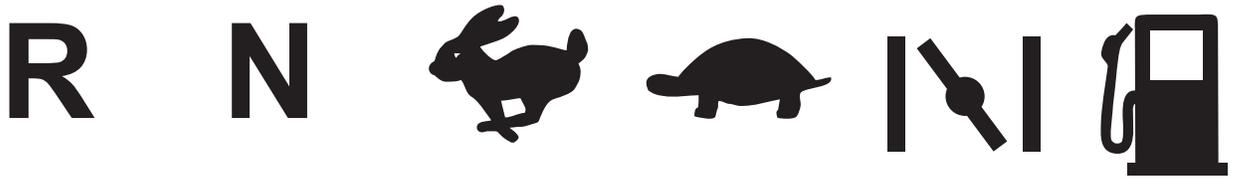
Xxxx xxxxxx xxxxx xxxx  
 xxxxxxxxxxx xxxxxx xxxxxxxxxxx. xx  
 xxxxxxxxxxx xxxx xxxxxxx.

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

**IMPORTANT INFORMATION**

Xxxx xxxxxx xxxxx xxxx xxxxxxxxxxx xxxxxx  
 xxxxxxxxxxx. xx xxxxxxxxxxx xxxx xxxxxxx.

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.



Reverse

Neutral

Fast

Slow

Choke

Fuel



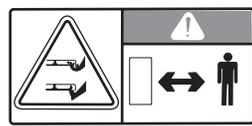
Warning!



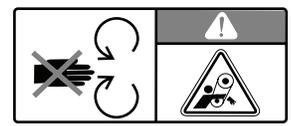
Parking Brake



CE conformity marking. Only for European market



Warning! Rotating blades, keep away from the discharge deck



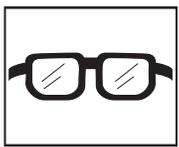
Do not touch parts



Battery acid is corrosive, explosive and flammable



Do not stand here



Use protective glasses



Use protective gloves

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

# SYMBOLS AND DECALS

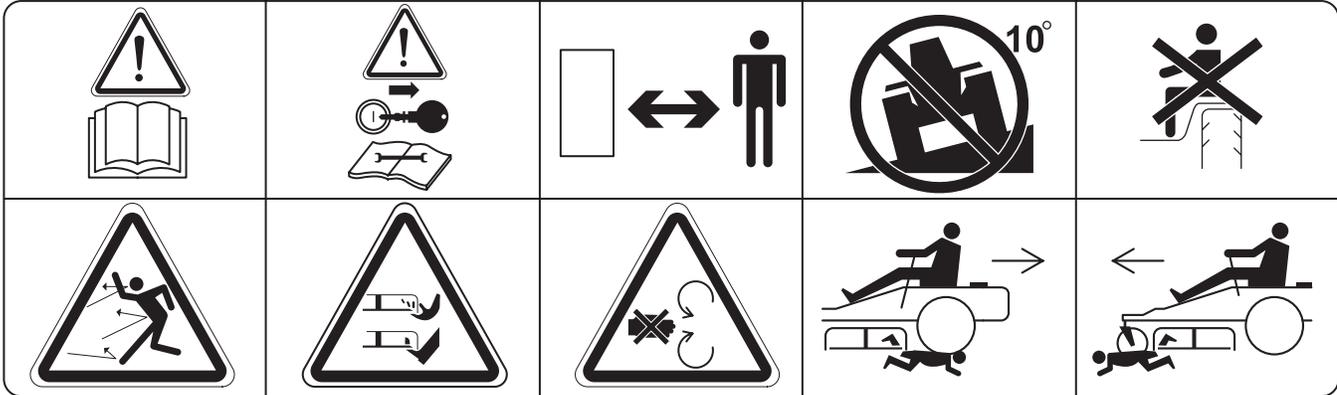
Read  
Operator's  
Manual

Shut off engine and  
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  
and 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



# SAFETY

## Safety Instructions

These instructions are for your safety. Read them carefully.



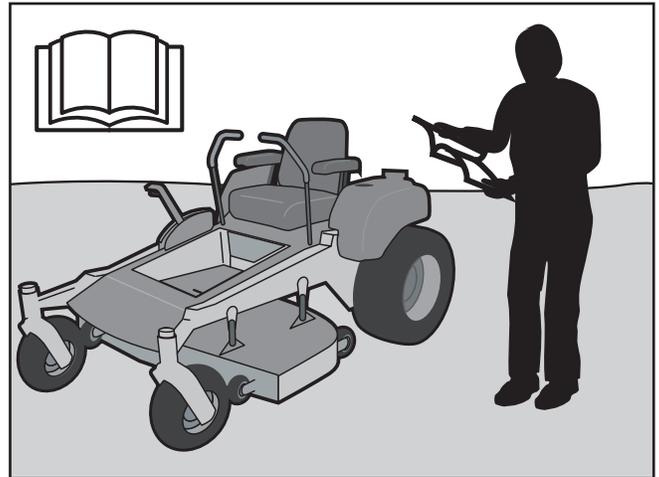
### WARNING!

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

**IMPORTANT:** THIS CUTTING MACHINE IS CAPABLE OF AMPUTATING HANDS AND FEET AND THROWING OBJECTS. FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

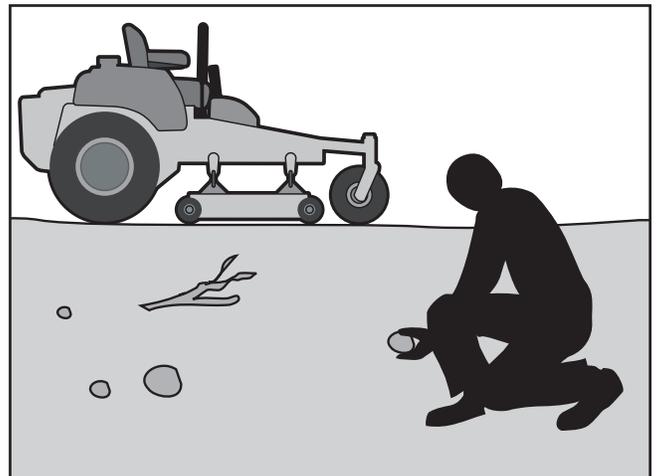
### General Operation

- Read, understand, and follow all instructions on the machine and in the manual before starting.
- Do not put hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blades.
- Be sure the area is clear of bystanders before operating. Stop machine if anyone enters the area.
- Never carry passengers. The machine is only intended for use by one person.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Never direct discharged material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blades when crossing gravel surfaces.
- Do not operate machine without the entire grass catcher, discharge guard, or other safety devices in place and working.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Disengage blades when not mowing. Shut off engine and wait for all parts to come to a complete stop before cleaning the machine, removing the grass catcher, or unclogging the discharge guard.
- Operate machine only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.



8011-512

*Read the operator's manual before starting the machine*



8011-513

*Clear the area of objects before mowing*

# SAFETY

- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.
- Always wear eye protection when operating machine.
- Data indicates that operators age 60 years and above are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.
- Follow the manufacturer's recommendation for wheel weights or counterweights.
- Anyone who operates this machine must first read and understand this Operation Manual. Local laws may regulate the age of the user.
- Keep machine free of grass, leaves or other debris buildup which can touch the hot exhaust or engine parts and burn. Do not allow the mower deck to plow leaves or other debris, causing buildup to occur.
- Clean any oil or fuel spillage before operating or storing the machine.
- Allow machine to cool before storage.



8011-520

*Never take passengers*



## **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 odorless, colorless, poisonous gas. Do not use the machine in enclosed spaces.**

# SAFETY

## Personal Safety Equipment



### WARNING!

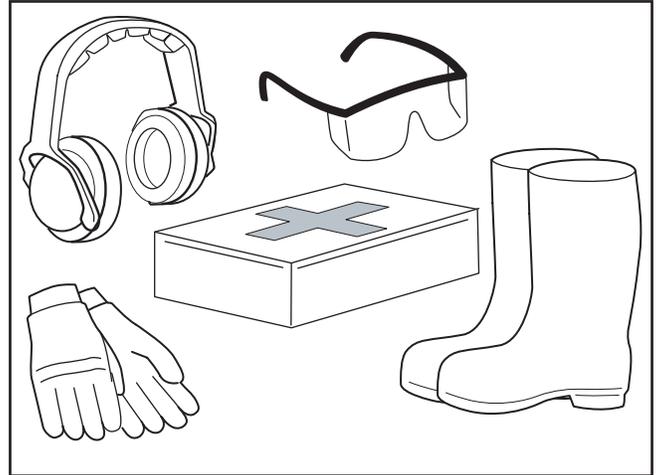
When using the machine, approved personal protective equipment (shown in illustrations) shall be used. Personal protective equipment cannot eliminate the risk of injury but it will reduce the degree of injury if an accident does happen. Ask your retailer for help in choosing the right equipment.

- 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 toe caps.
- 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.

## Slope Operation

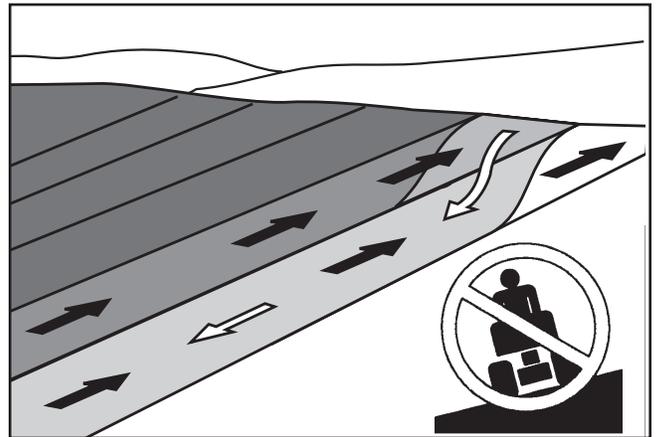
Slopes are a major factor related to loss of control and tip-over accidents, which can result in severe injury or death. Operation on all slopes requires extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

- Mow up and down slopes (10 degrees maximum), not across.
- Watch for holes, ruts, bumps, rocks, or other hidden objects. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Choose a low ground speed so that you will not have to stop while on the slope.
- Do not mow on wet grass. Tires may lose traction.
- Avoid starting, stopping, or turning on a slope. If the tires lose traction, disengage the blades and proceed slowly straight down the slope.
- Keep movement on the slopes slow and gradual. Do not make sudden changes in speed or direction, which could cause machine to roll over.
- Use extra care while operating machine with grass catchers or other attachments; they can affect the stability of the machine.
- Do not use on steep slopes.
- Do not try to stabilize the machine by putting a foot on the ground.
- Do not mow near drop-offs, ditches, or embankments. The machine could suddenly roll over if a wheel is over the edge or if the edge caves in.



8011-670a

Personal protective equipment



6003-004

Mow up and down, not side to side



### WARNING!

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

# SAFETY

## Children

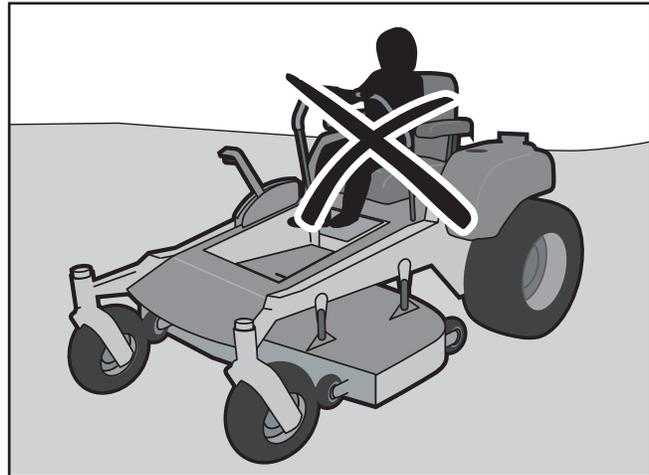
Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. *Never* assume that children will remain where you last saw them.

- Keep children out of the mowing area and in the watchful care of a responsible adult other than the operator.
- Be alert and turn machine off if a child enters the area.
- Before and while backing, look behind and down for small children.
- Never carry children, even with the blades shut off. They may fall off and be seriously injured or interfere with safe machine operation. Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the machine.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may block your view of a child.



8011-509

*Be extra cautious when driving on slopes*



8011-517

*Never allow children to operate the machine*



8011-518

*Keep children away from work area*

# SAFETY



## 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.

## Safe Handling of Gasoline

To avoid personal injury or property damage, use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive.

- Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
- Use only approved gasoline container.
- Never remove gas cap or add fuel with the engine running. Allow engine to cool at least two (2) minutes before refueling.
- Never fuel the machine indoors.
- Never store the machine or fuel container where there is an open flame, spark, or pilot light such as on a water heater or other appliance.
- Before you begin refueling, minimize the risk of static electricity by touching a metal surface.
- Never fill containers inside a vehicle or on a truck or trailer bed with plastic liner. Always place containers on the ground away from the vehicle when filling.
- Remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, refuel such equipment with a portable container, rather than from a gasoline dispenser nozzle.
- Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device.
- If fuel is spilled on clothing, change clothing immediately.
- Never overfill fuel tank. Replace gas cap and tighten securely.
- Do not start the engine near spilled fuel.
- Never use gasoline as a cleaning agent.
- If leaks arise in fuel system, engine must not be started until problem has been resolved.
- Check the fuel level before each use and leave space for the fuel to expand, as the heat from the engine and the sun may otherwise cause the fuel to expand and overflow.



8011-516

*Never fill the fuel tank indoors*



## WARNING!

The engine and the exhaust system become very hot during operation.

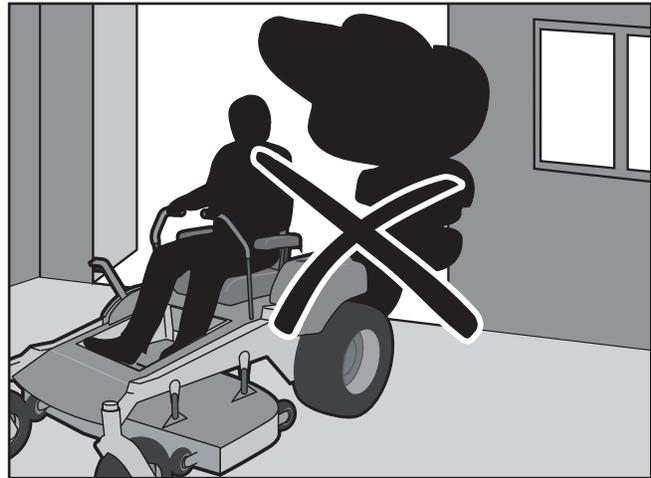
There is risk for burns if touched.

Allow engine and exhaust system to cool at least two (2) minutes before refueling.

# SAFETY

## General Maintenance

- Never operate machine in a closed area.
- Keep all nuts and bolts tight to be sure the equipment is in safe working condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris buildup. Clean oil or fuel spillage and remove any fuel-soaked debris. Allow machine to cool before storing.
- If you strike a foreign object, stop and inspect the machine. Repair, if necessary, before restarting.
- Never make any adjustments or repairs with the engine running.
- Check grass catcher components and the discharge guard frequently and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp. Wrap the blade or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.
- Maintain or replace safety and instruction labels, as necessary.
- 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.
- 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.
- 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 or damage.
- Ensure that nuts and bolts, especially the fastening bolts for the blade attachments, are properly tightened, torqued and that the equipment is in good condition.



*Never drive the machine in an enclosed space*

8011-515



### **WARNING!**

**Use protective glasses for maintenance work.**



### **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 handling the battery.**

# SAFETY

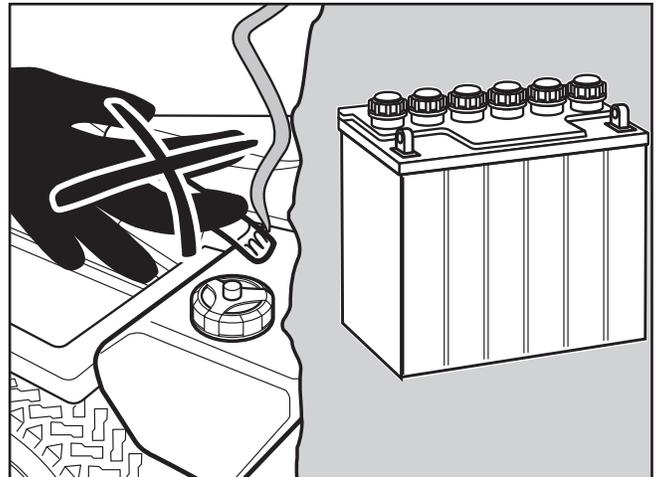
- Sparking can occur when working with the battery and the heavy cables of the starter circuit. This can cause battery explosion, fire or eye injury. Sparking in this circuit can not occur after the chassis cable (normally negative, black) is removed from the battery.
- Use protective goggles.
- Ensure that the fuel filler cap is mounted tightly and no flammable substances are stored in an open vessel.
- Never work with the starter circuit if there is spilled fuel.



## WARNING!

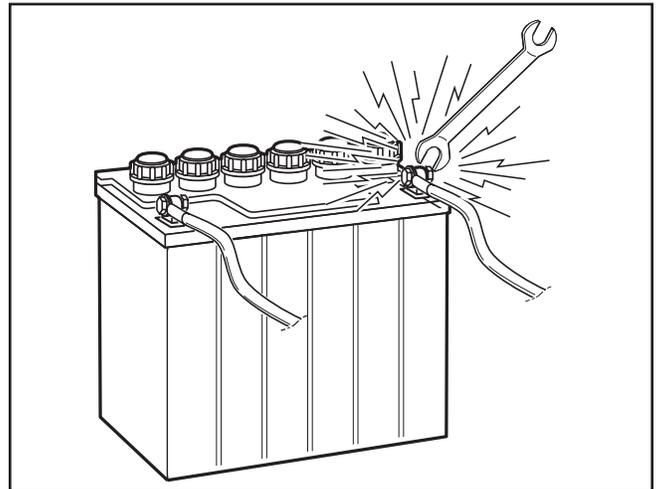
**Avoid electrical sparking and its consequences by the following routines:**

- Disconnect the chassis cable from the battery first and reconnect it last.
- Do not make a bridge short circuit 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.
- Stop to 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. Only use approved repair parts for the machine.
- 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.
- Regularly clean deck and underside of deck, avoid spraying engine and electrical components with water.



6003-009

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



8009-728

*Risk of sparking*



8011-514

*Regularly clean deck*

# SAFETY

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## 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 straps, when transporting.
- Do not operate this machine on public roadways.
- Check and abide by local traffic regulations before transporting 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.
- Load the unit onto truck or trailer by driving up ramps of suitable strength using a slow speed. Do not lift! The machine is not intended to be lifted by hand.



### **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 immediately.**

### **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.**

# SAFETY

## 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 the ROPS is an accessory.

- 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.

## Spark Arresters

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



### WARNING!

The rollover protection system's capabilities may be impaired by damage if the mower is overturned or if alteration to the ROPS occurs. If these conditions take place, the total structure **MUST** be replaced.



### WARNING!

This mower is equipped with an internal combustion engine and should not be used on or near any unimproved forested, bush covered or grassy lands unless the engine's 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.

# CONTROLS

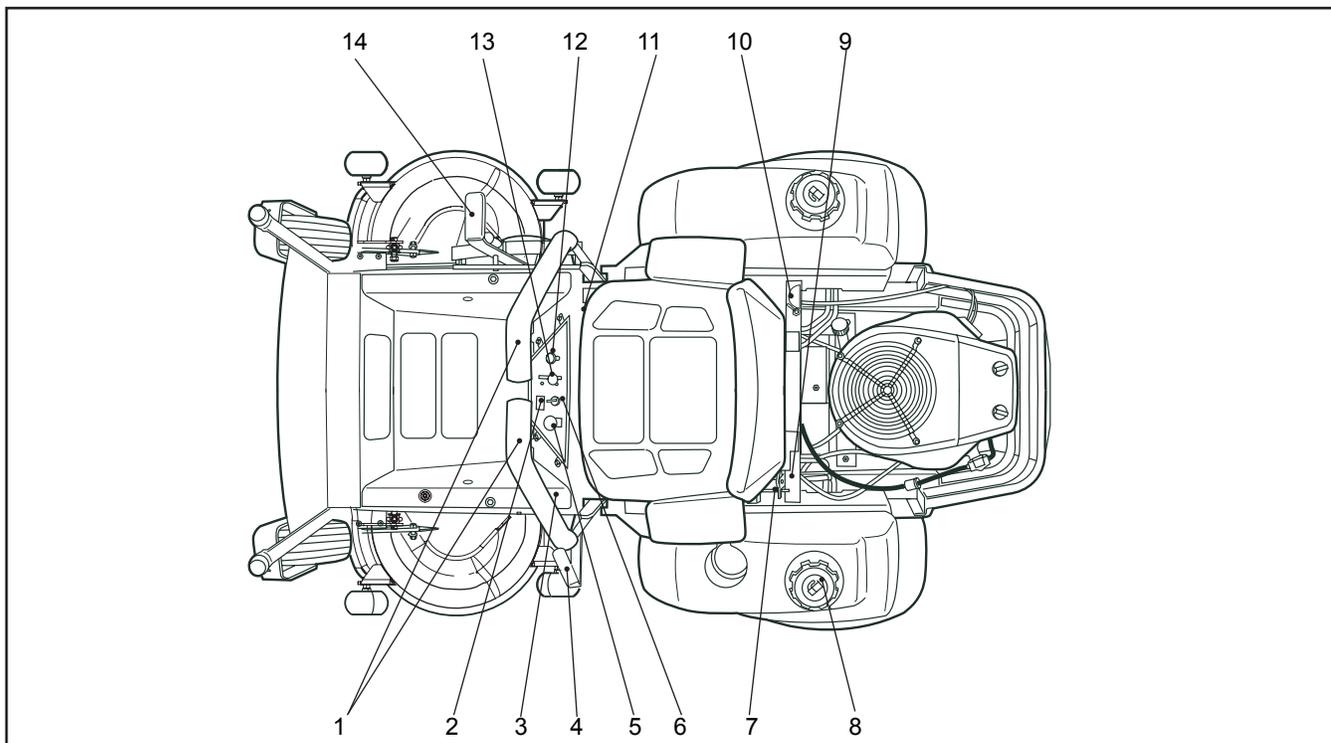
This operator's manual describes the Husqvarna Zero Turn Rider. The rider is fitted with either a Kohler or Kawasaki four-stroke overhead valve engine developing 25-30 horse power\*.

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.

\*As rated by the engine manufacturer.

## Control Locations



- |                          |                             |
|--------------------------|-----------------------------|
| 1. Motion control levers | 8. Fuel tank cap            |
| 2. Hour meter            | 9. Seat lock                |
| 3. Tracking knob         | 10. Fuel shut-off valve     |
| 4. Parking brake         | 11. Seat adjustment lever   |
| 5. Blade switch          | 12. Choke control           |
| 6. Ignition switch       | 13. Throttle control        |
| 7. Fuses                 | 14. Cutting height adjuster |

# CONTROLS

## Motion Control Levers

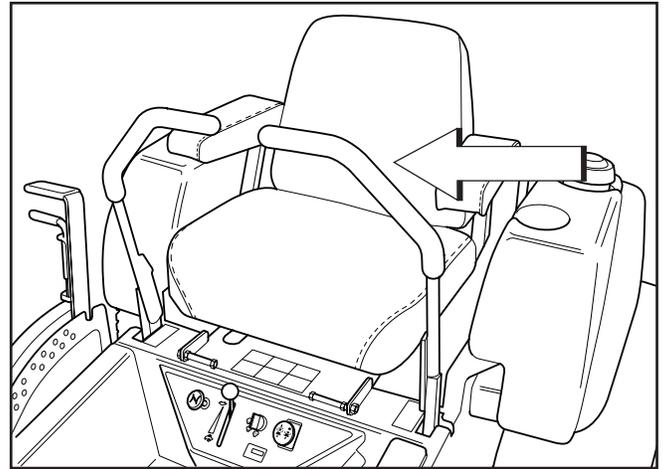
The machine's speed and direction are continuously variable using the two steering controls. The steering controls can be moved forward or backward about a neutral position. Furthermore, there is a neutral position, which is locked if the steering controls are moved outward.

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.



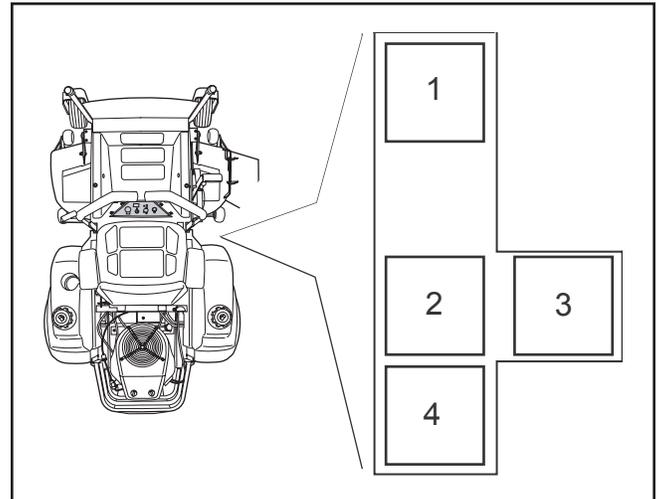
8011-788

Steering controls



### WARNING!

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



8011-7912

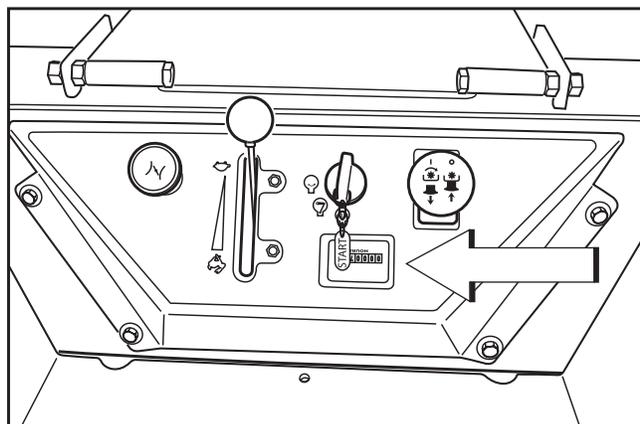
1. Forward
2. Neutral
3. Neutral slot, Neutral lock
4. Reverse

Motion control lever pattern (right side)

# CONTROLS

## 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 cannot be manually reset.



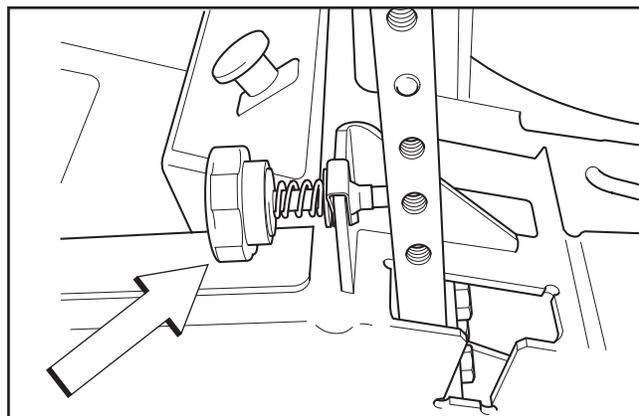
8011-749

Hour meter

## Tracking knob

The tracking knob is located in front of the left control lever. Rotating the knob allows fine tuning adjustments so that the machine tracks straight with the motion control 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. For example: if the 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.



8011-442

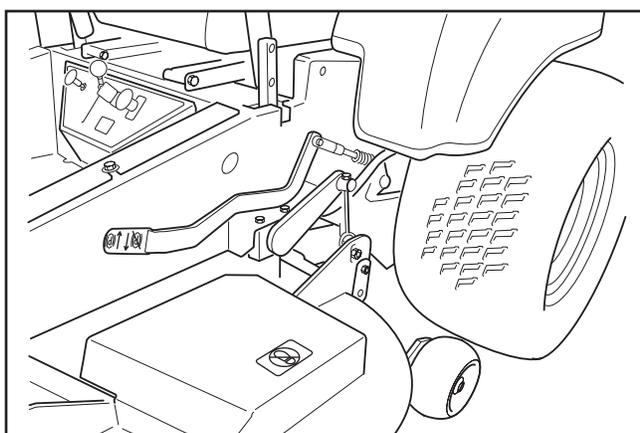
Tracking knob

## Parking Brake

The parking brake is found below the operator's left hand. Pull the lever backward to activate the brake and push forward to release it.

### IMPORTANT INFORMATION

**The machine must stand absolutely still when applying the parking brake. Always set the parking brake before dismounting. Release the parking brake before moving the mower.**



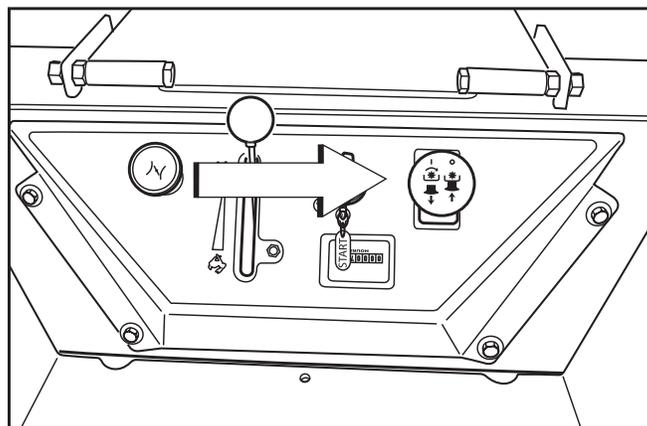
8011-511-1

Parking brake not activated

# CONTROLS

## Blade switch

To engage the mower deck, pull the blade switch knob out. The mower blades are disengaged when the knob is pressed down fully.



8011-510

Blade Switch

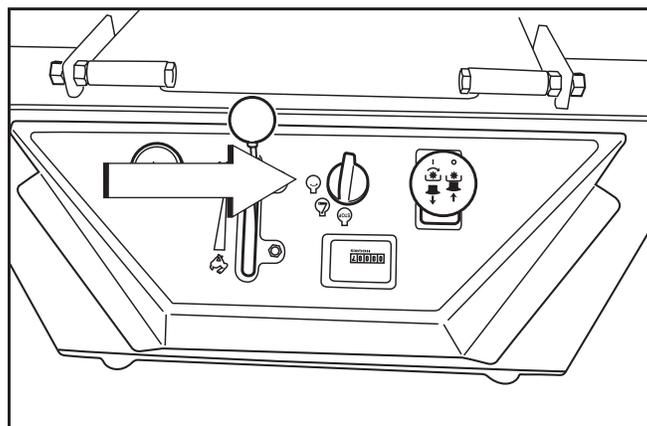
## Ignition Switch

The ignition key is placed on the control panel and is used to start and stop the engine.



### WARNING!

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



8011-748

Ignition Switch

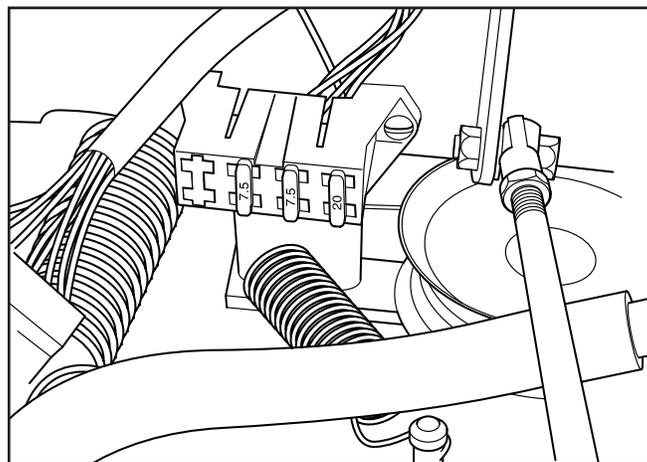
## Fuses

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 a 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.



8011-746

Fuses

# CONTROLS

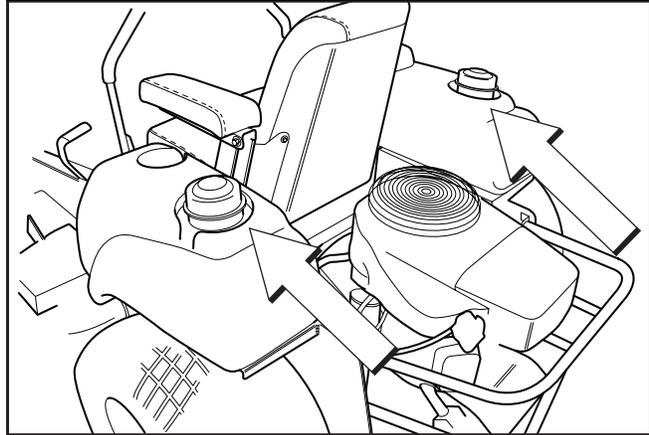
## Refueling

Read the safety instructions before refueling. The machine has two fuel tanks, one on each side just behind the seat. The tank capacity is 3 gallons (11.4 liters).

Regularly check the gas cap gasket for damage and keep the cap properly tightened.

The engine will run on a minimum of 85-octane unleaded gasoline (no oil mix). Environmentally adapted alkylate gasoline can be used. See Technical Data concerning ethanol fuel. Methanol fuel is not allowed. Do not use E85 alcohol based fuel. Damage to the engine and components may occur.

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



Fuel tanks

8011-524



### WARNING!

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



### WARNING!

**The engine and the exhaust system, become very hot during operation.**

**Risk for burns if touched.**

**Allow engine and exhaust system to cool at least two (2) minutes before refueling**



### 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.**

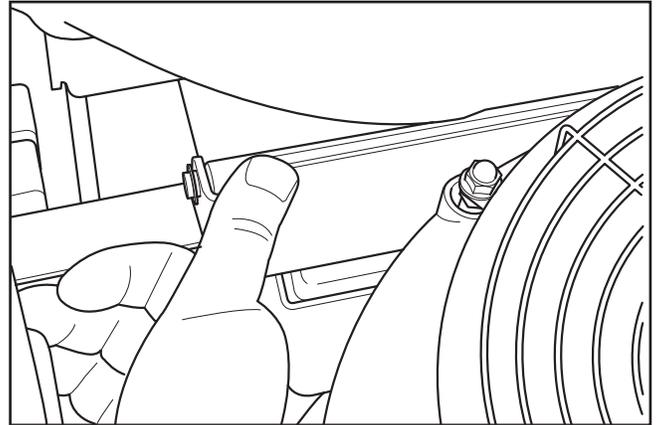
### IMPORTANT INFORMATION

**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.**

# CONTROLS

## Seat Lock

Under the rear section of the seat is a lock device to lock the seat into a folded position. The seat has a linked fixture at the front edge and can be folded forward when the lock is pushed.

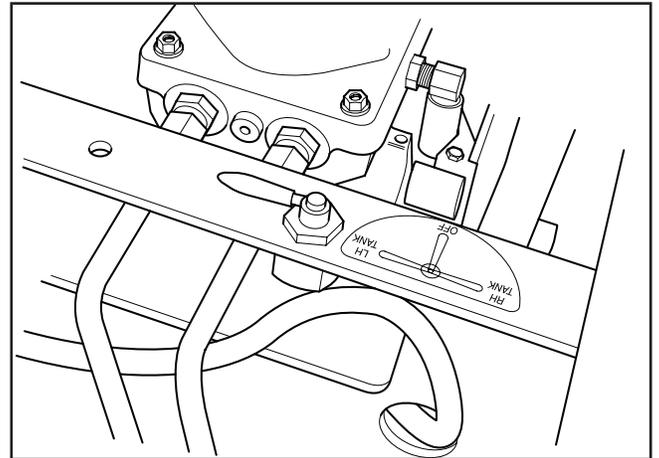


8011-440

*Seat lock*

## 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 (OFF).

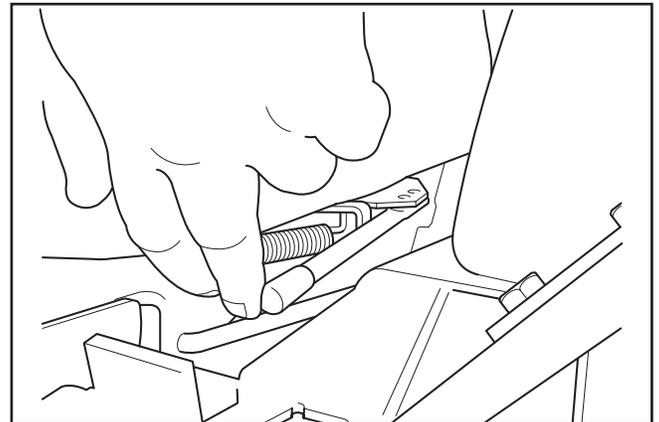


8011-506

*Fuel shut off valve*

## Seat adjustment lever

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



8011-441

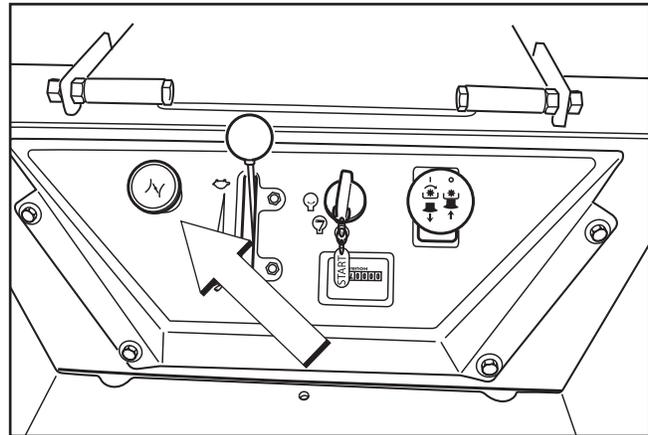
*Lengthways adjustment*

# CONTROLS

## Choke control

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

For cold starts, pull the control out to its extent.



8011-508

Choke control

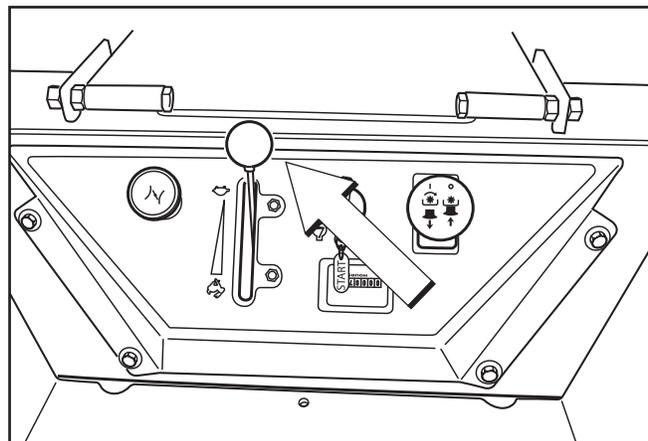
## Throttle control

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).

To increase or decrease the engine speed, the control is moved forward or back respectively.

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

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



8011-509

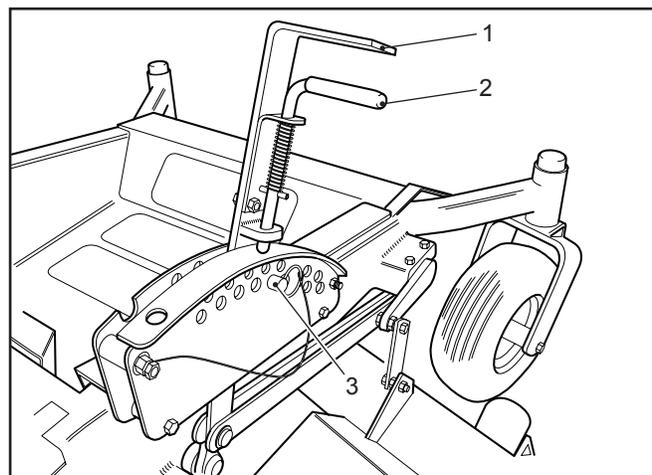
Throttle control

## Mower Deck Lifting Lever

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 illustration) with the supplied pin.

- Pull the lever backward to the locked position to engage the transport position. The deck is then fully raised.
- To lower, squeeze the lock handle up to the lifting lever while moving the lever forward. When the lever meets the set peg, the desired height is set.
- The lifting lever can also be used to temporarily adjust the cutting height, such as when passing over a minor bump in the lawn.



8011-753

1. Lifting lever
2. Lock handle
3. Set peg

Mower deck lifting lever

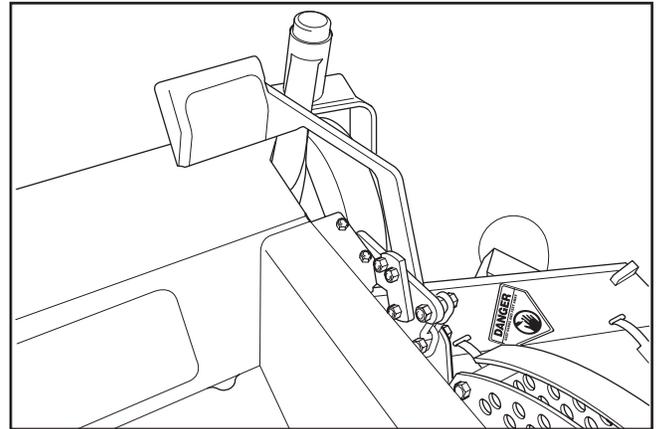
# CONTROLS

## Cutting height lift pedal

On some models, there is a deck assist lift pedal to aid in maneuvering the deck lift.

### IMPORTANT INFORMATION

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



8011-465

*Lift pedal*

## Pump release valves

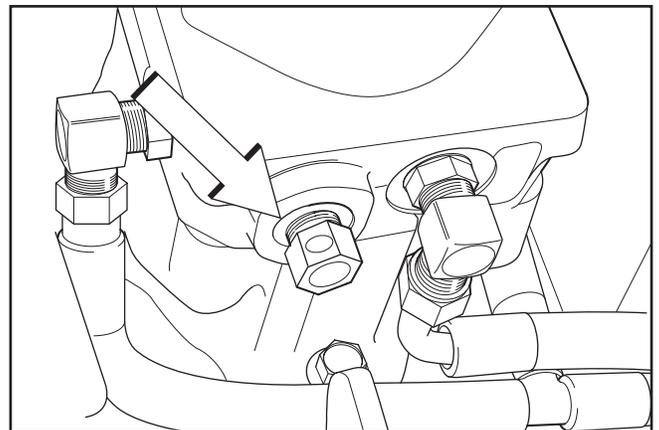
### IMPORTANT INFORMATION

Only rotate the valve  $\frac{1}{4}$  to  $\frac{1}{2}$  turn to release the system.

Tighten the valve moderately.

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

Pump release valves are located on the pumps. These valves release the system so the machine may be moved by hand when not running. Tilt the seat forward to gain access to the valves. Use a  $\frac{5}{8}$ " wrench to open the valve.



8011-507

*Pump release valve*

# OPERATION

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Read the “Safety Instructions” section and the following pages if you are unfamiliar with the machine.

## Training

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

We suggest 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 the 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 Zero Turn mowers to become familiar with the mower’s 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 overly aggressive maneuvers.

## Steering

### To move forward and backward

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

### **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” in the “Operation” section) to an open, flat area, without other people or vehicles or obstacles nearby. To move unit under its own power, the operator must be in the seat, start engine (see “Before Starting” in “Operation” section), adjust engine speed to idle, disengage parking 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.

# OPERATION

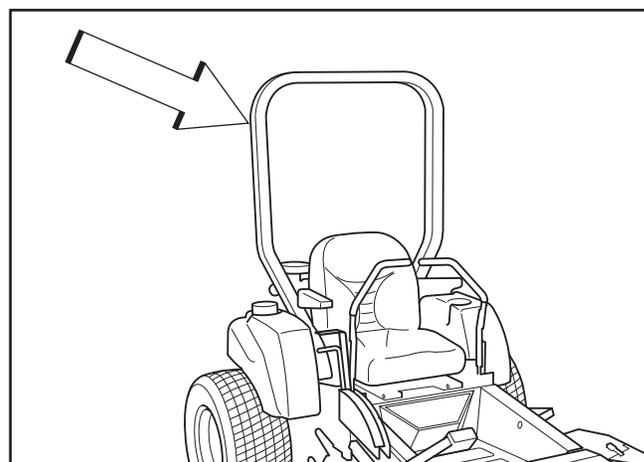
## Roll bar and safety belt

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.



### WARNING!

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

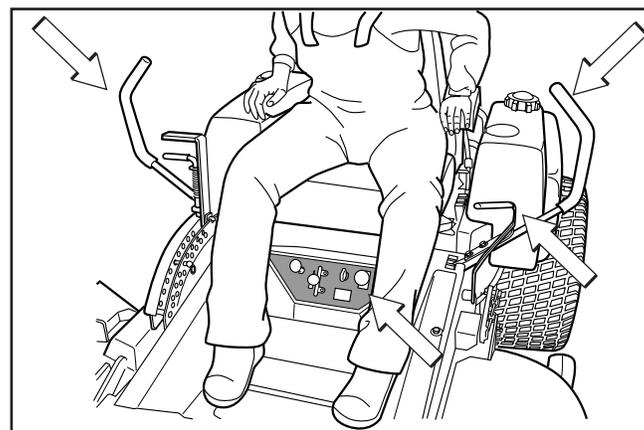


8011-464

Roll bar in upright position

## 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 tank.
- 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.

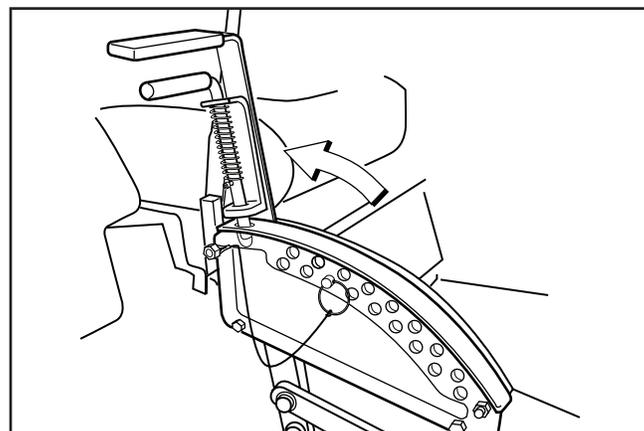


8011-527

Start conditions

## Starting the Engine

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

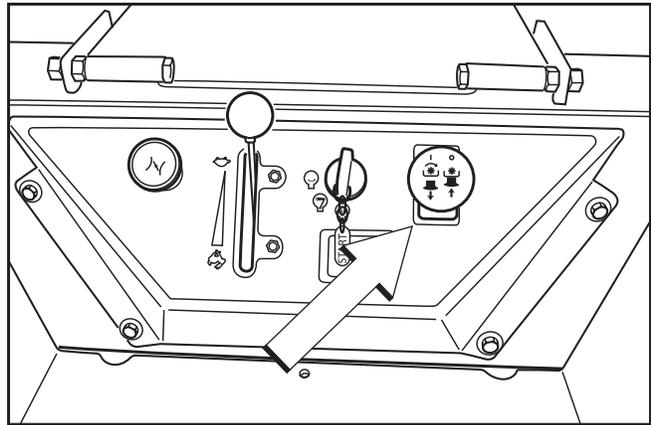


8011-753

Raise the mower deck

# OPERATION

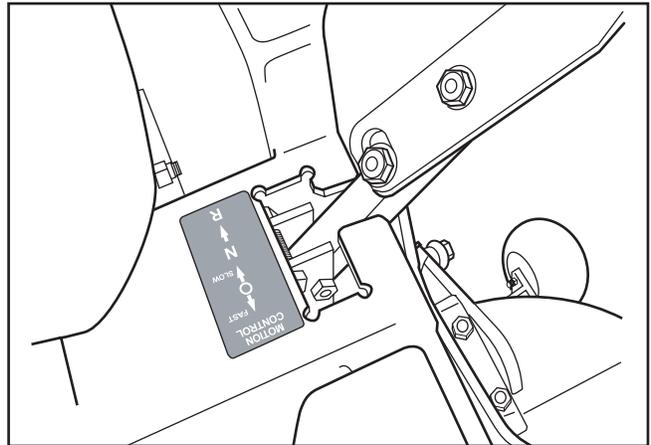
4. Disengage the mower blades by depressing the blade switch.



8011-510

*Depress the control for disengaging the mower deck*

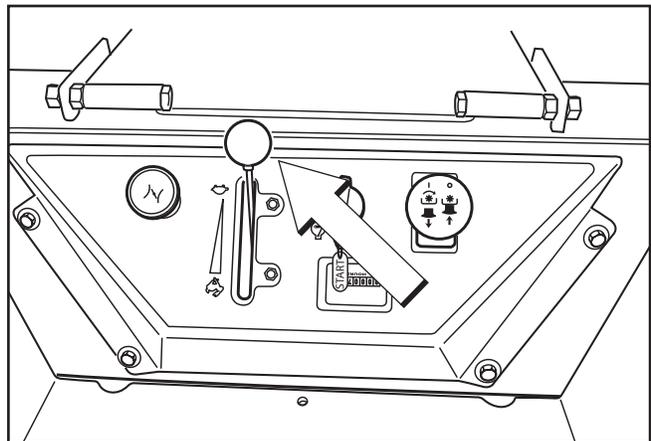
5. Move the steering controls outward to the locked (outer) neutral position.



8011-526

*Steering controls in the outward, locked neutral position*

6. Move the throttle to the middle position.

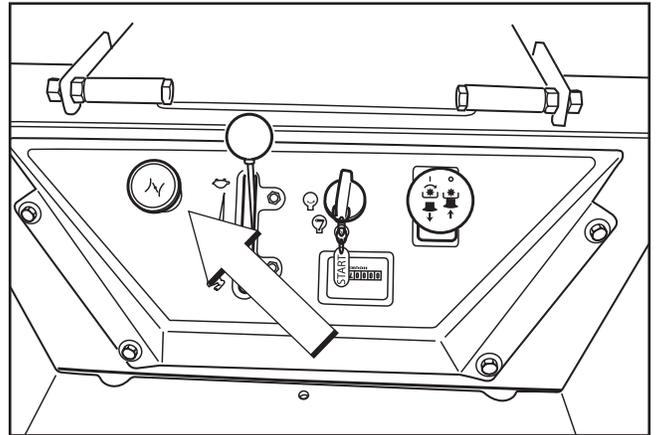


8011-509

*Set the throttle*

# OPERATION

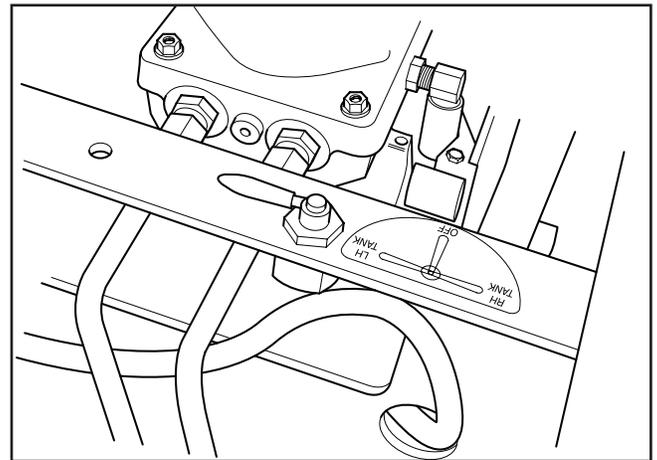
7. If the engine is cold, the choke control should be pulled outward to the choke position.



8011-508

*Set the choke control*

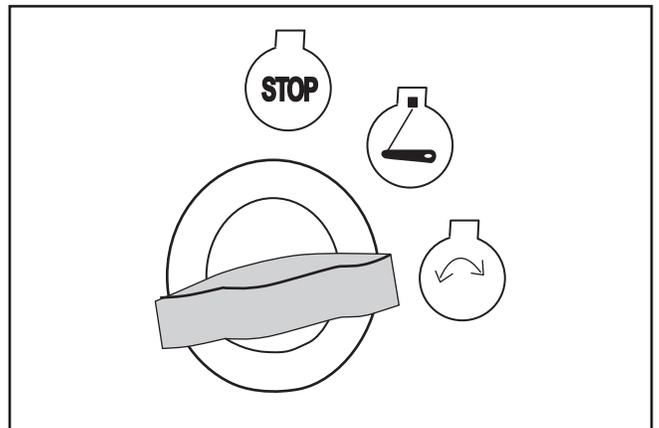
8. Open the valve for the selected fuel tank.



8011-506

*Open the fuel valve*

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



8011-742

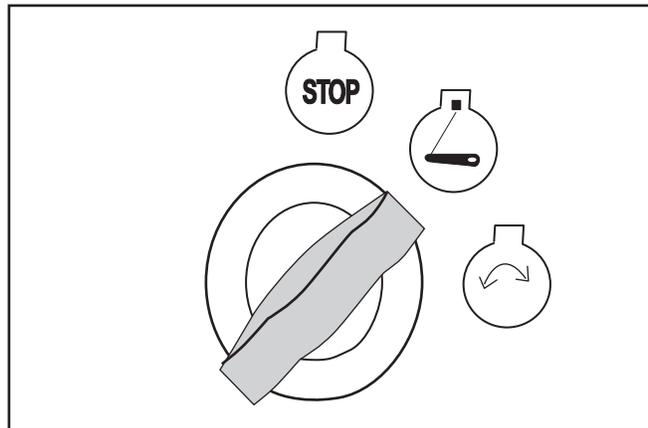
*Turn to the start position*

# OPERATION

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

## IMPORTANT INFORMATION

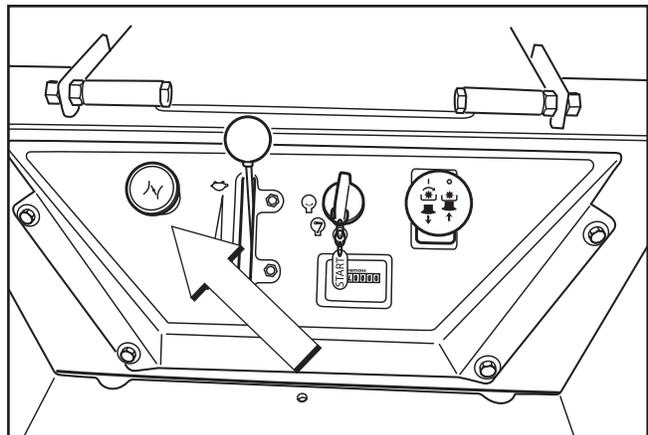
**Do not run the starter for more than 5 seconds each time. If the engine does not start, wait about 10 seconds before retrying.**



8011-743

*Return to run position*

- Push the choke control in gradually when the engine has started.



8011-508

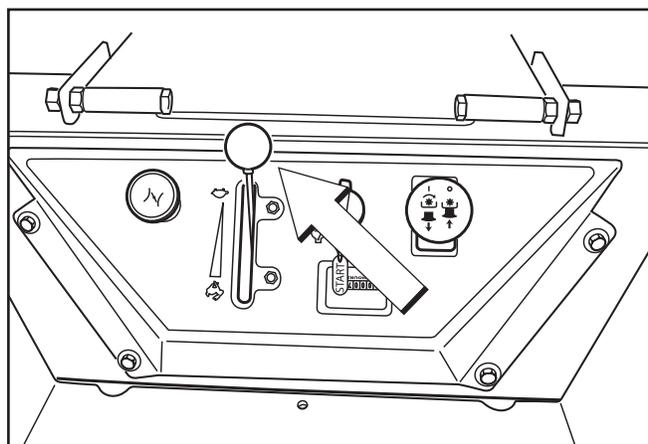
*Press in the choke control*

- 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** (no choke).



## 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 odorless, colorless, poisonous gas. Do not use the machine in enclosed spaces.**



8011-754

*Set the engine speed*

# OPERATION

## 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.

**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 to start other vehicles.

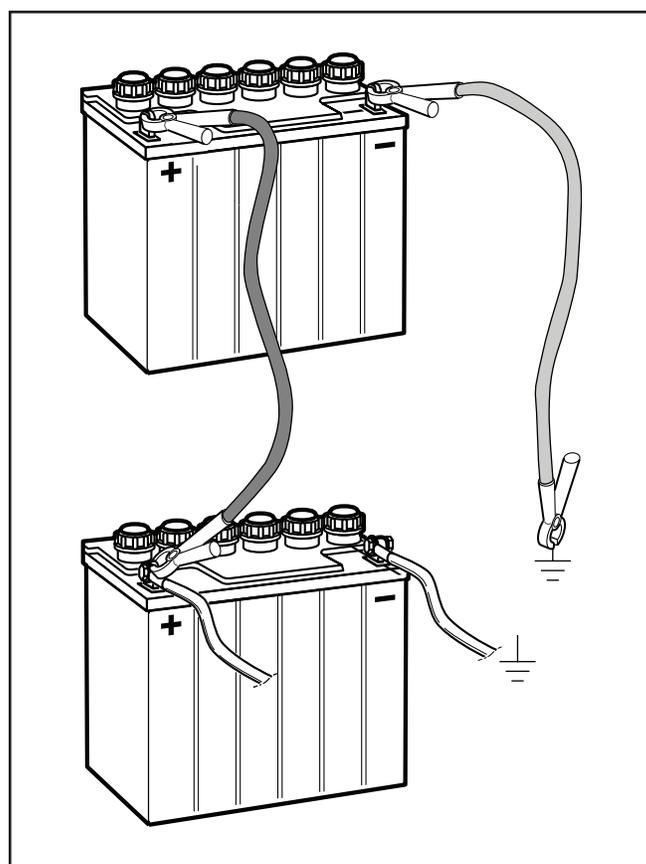
If “jumper cables” are used for emergency starting, follow this procedure:

### 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.



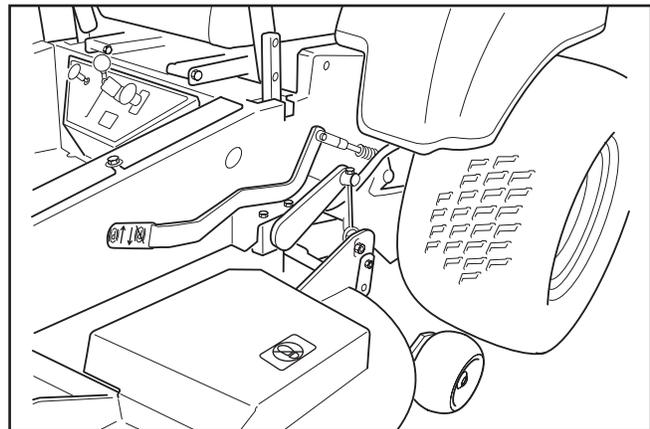
*Jumper cable connection*

8011-642

# OPERATION

## Running

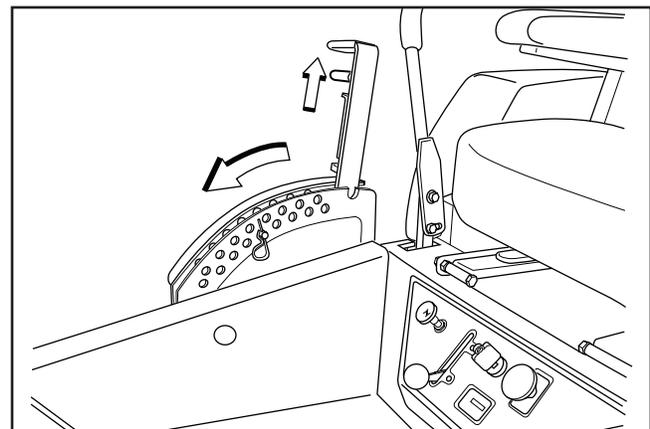
1. Release the parking brake by moving the lever downward.  
Your mower is equipped with an operator presence system. When the engine is running, any attempt by the operator to leave the seat without first setting the parking brake will shut off the engine.
2. Move the steering controls to the neutral position (N).



8011-511-1

Released parking brake

3. Select the cutting height by placing the peg in the corresponding hole for desired height. Lock the peg in place on the inside with the pin.
4. Squeeze the lock handle up to the lifting lever while moving the lever forward to meet the set peg.
5. Make sure the work area is free from objects that could be thrown by the rotating blades.



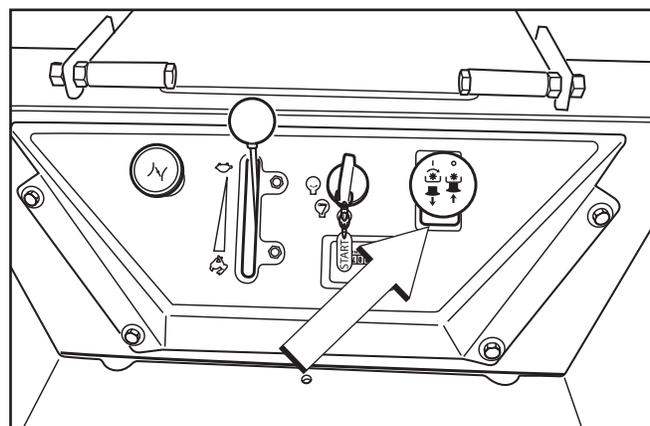
8011-561

Select the cutting height

### IMPORTANT INFORMATION

**The mower deck's gauge wheels should be evenly adjusted.**

6. Engage the mower deck by pulling out the blade switch.
7. Move throttle control to full throttle.
8. 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.



8011-510

Engaging the mower deck



### WARNING!

**Ensure that no one is near mower when engaging blade switch.**

# OPERATION

## Operating on Hills

Read the Safety Instructions “Driving on Slopes” in the “Safety Instructions”.



### WARNING!

**Do not drive up or down hills with slopes greater than 10 degrees. Do not drive across slopes.**

- The slowest speed possible should be used before starting up or down hills.
- Avoid stopping or changing speed on hills.

### IMPORTANT INFORMATION

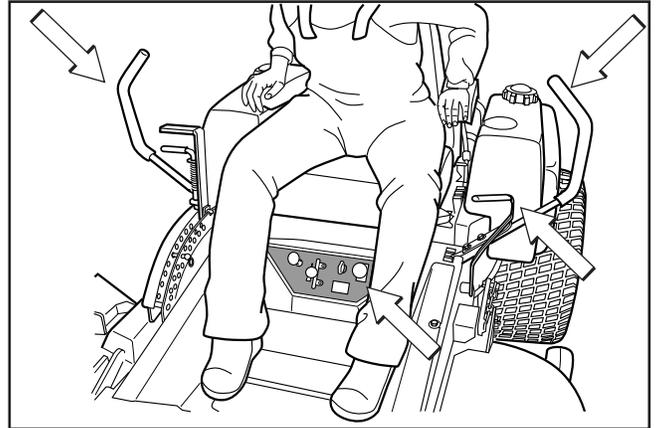
**Control levers return to neutral when released. This may cause the mower to suddenly stop.**

- If stopping is absolutely necessary, pull drive levers into the neutral position and push to the outside of the unit and engage the parking brake.
- To restart movement, release the parking brake.
- Pull the control levers back to the center of the mower and press forward to regain forward motion.
- Make all turns slowly.

## Stopping the Engine

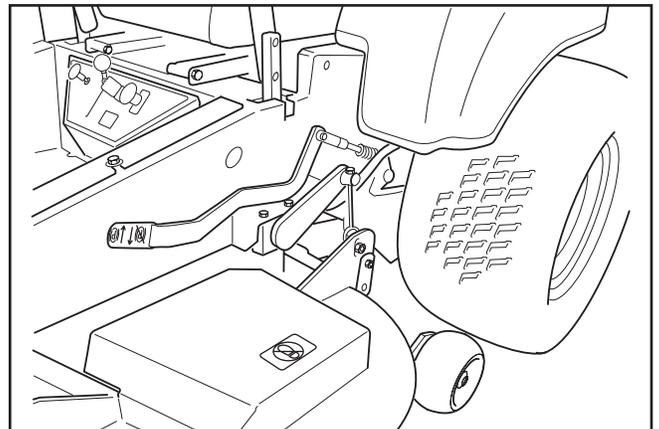
If the engine has been worked hard, allow it to idle a minute to attain normal operating temperature before stopping it. Avoid idling the engine for longer periods, as there is a risk of the spark plugs fouling.

1. Disengage the mower deck by depressing the blade switch.
2. 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 the choke to stop the engine.
5. Move the steering controls outward.
6. To prevent unauthorized use, remove the key when leaving the mower.



Stopping conditions

8011-640



Released parking brake

8011-511-1

### IMPORTANT INFORMATION

**Leaving the ignition switch in any other position than “OFF” will cause the battery to be discharged and the hour meter to accumulate hours.**

# OPERATION

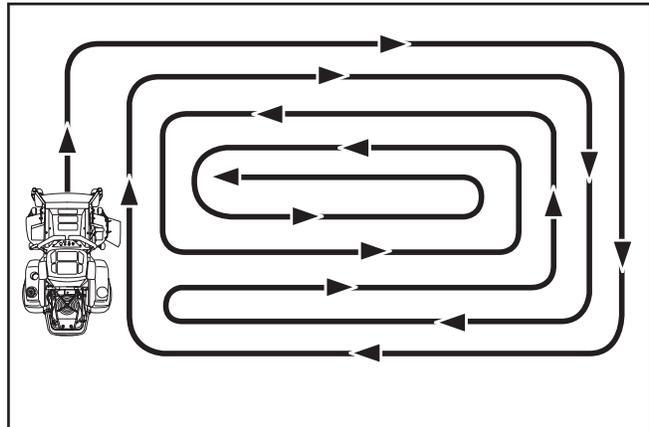
## Mowing Tips

- 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 2½" (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 cowl.
- 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, engine and electrical components.
- 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 pattern*

8011-603a



### WARNING!

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

# OPERATION

## Moving by Hand

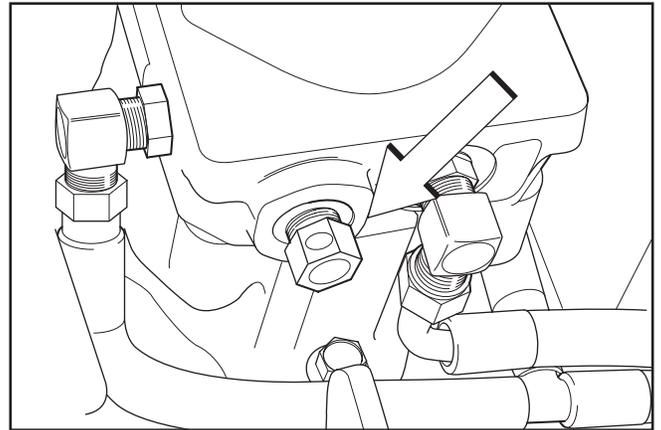
When pushing or pulling the mower with the engine turned off, the vent screws on both hydraulic pumps must be opened  $\frac{1}{4}$  -  $\frac{1}{2}$  turn.



### **WARNING!**

**No adjustments or maintenance to be carried out unless:**

- **the engine stopped**
- **the ignition key removed**
- **the parking brake activated**



*Vent screws on the hydraulic pump*

8011-507

# MAINTENANCE

Maintenance	Daily		Weekly	At least once each year	Maintenance interval in hours			
	Before	After			25	50	100	300
Check the parking brake	●							
Check the engine's oil level (every refueling)	●							
Check the safety system	●							
Check for fuel and oil leakages	◆							
Check/clean the engine's cooling air intake		●						
Check the mower deck		●						
Check for loose hardware (screws, nuts)		●						
Clean under the mower deck		●						
Start the engine and blades, listen for unusual sounds		◆						
Check for damage		◆						
Thoroughly clean around the engine		◆						
Clean around belts, belt pulleys		◆						
Check the tire pressures					◆			
Check battery					●			
Sharpen <sup>3)</sup> / Replace mower blades					●			
Check the fuel pump's air filter <sup>2)</sup>					●			
Clean the engine's cooling air intake <sup>2)</sup>				●	●			
Clean air filter dust cap				●				
Check/adjust the parking brake				◆		◆		
Inspect muffler/spark arrester				◆		◆		

<sup>1)</sup> First change after 5-8 hours. When operating with a heavy load or at high ambient temperatures, replace every 50 hours. <sup>2)</sup> In dusty conditions, cleaning and replacement are required more often. <sup>3)</sup> Performed by authorized service workshop.

● = Described in this manual

◆ = Not described in this manual

# MAINTENANCE

Maintenance	Daily		Weekly	At least once each year	Maintenance interval in hours			
	Before	After			25	50	100	300
Check/adjust throttle cable							●	
Check the condition of belts, belt pulleys				●			●	
Change the engine oil <sup>1)</sup>				●			●	
Replace the engine oil filter				●			●	
Clean/replace the spark plugs				●			●	
Replace the fuel filter				●			●	
Replace air filter <sup>2)</sup> (every 200 hours)							●	
Check the caster wheels (every 200 hours)							●	
Clean the cooling fins <sup>2)</sup>				◆			◆	
Clean fins of oil cooler (Kohler)				●			●	
Change the hydraulic oil (every 300 hours)				◆				◆
Replace the hydraulic oil filter (every 300 hours)				◆				◆
Dismantle and inspect starter <sup>3)</sup> (every 500 hours)								◆
Check/adjust the mower deck				●				●
Check the engine valve clearance <sup>3)</sup>				◆				◆
Perform the 300-hour service <sup>3)</sup>				◆				◆

<sup>1)</sup> First change after 5-8 hours. When operating with a heavy load or at high ambient temperatures, replace every 50 hours. <sup>2)</sup> In dusty conditions, cleaning and replacement are required more often. <sup>3)</sup> Performed by authorized service workshop.

● = Described in this manual

◆ = Not described in this manual



## WARNING!

**Before performing any service or adjustment checklist:**

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

# MAINTENANCE

## 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.
- See charge for charging times.

STANDARD BATTERY	STATE OF CHARGE	APPROXIMATE BATTERY CHARGING TIME* TO FULL CHARGE AT 80°F / 27°C			
		Maximum Rate at:			
		50 Amps	30 Amps	20 Amps	10 Amps
12.6V	100%	- FULL CHARGE -			
12.4V	75%	20 min.	35 min.	48 min.	90 min.
12.2V	50%	45 min.	75 min.	95 min.	180 min.
12.0V	25%	65 min.	115 min.	145 min.	280 min.
11.8V	0%	85 min.	150 min.	195 min.	370 min.

\*Charging time depends on battery capacity, condition, age, temperature and efficiency of charger



### WARNING!

**Always wear eye protection when around batteries.**

### Cleaning battery and terminals

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

1. Lift the seat and rotate forward.
2. Remove the red terminal guard
3. Disconnect BLACK battery cable first, then the RED battery cable and remove the battery from the machine.
4. 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.
3. Using two ½" wrenches disconnect BLACK battery cable then RED battery cable.
4. Remove knobs and 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 the battery hold downs.
8. First connect RED battery cable to positive (+) battery terminal with hex bolt and hex nut.
9. Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt and hex nut.
10. Tighten securely.
11. Replace the red terminal guard
12. Lower seat.

### IMPORTANT INFORMATION

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

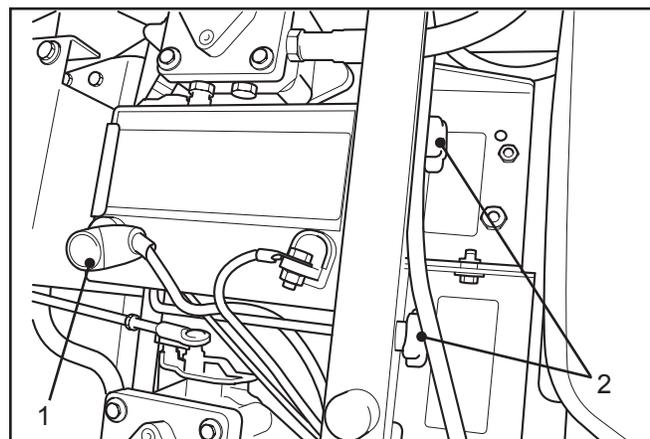
**Always use two wrenches for the terminal screws.**



### 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.**



1. Terminal guard
  2. Battery hold downs
- Battery installation*

8011-466

# MAINTENANCE

## Ignition System

The engine is equipped with an electronic ignition system. Only the spark plug requires maintenance.

1. For recommended spark plugs, see Technical Data.
2. Remove the ignition cable boot and clean around the spark plug.
3. Remove the spark plug with a spark plug socket wrench.
4. 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.
5. Measure the electrode gap with a gapping tool. The gap should be .030" (0.75 mm). Adjust as necessary by bending the side electrode.
6. Reinsert the spark plug, turning by hand to avoid damaging the threads.
7. 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  $\frac{1}{8}$  of a turn from the seated position. A new spark plug should be turned  $\frac{1}{4}$  a turn from the seated position.
8. Replace the ignition cable.

## Safety System

This 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.

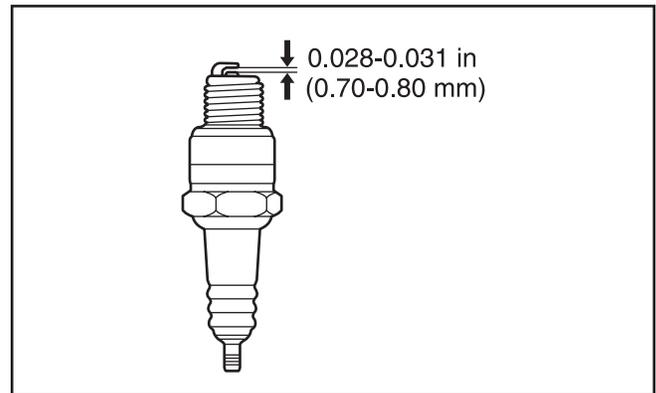
Make sure the engine stops when the park brake is not engaged and the operator leaves the seated position.

Check that the engine stops if the mower blades are engaged and the driver temporarily moves off the driver's seat.

### IMPORTANT INFORMATION

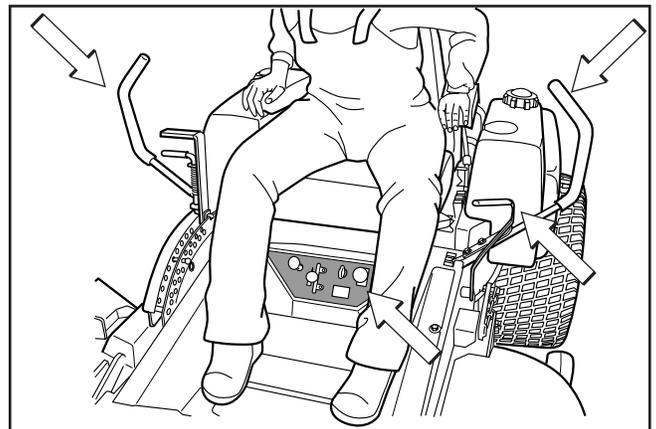
**Fitting the wrong spark plug type can damage the engine.**

**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



8011-527

Start conditions

### IMPORTANT INFORMATION

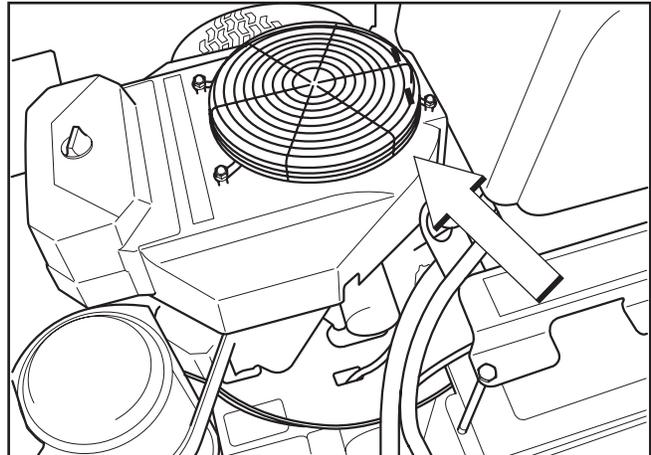
**To be able to drive, the driver must sit in the seat and release the parking brake before the steering controls can be moved into the neutral position, otherwise the engine will stop.**

# MAINTENANCE

## Engine 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.



8011-780

*Check and clean the cooling air intake*

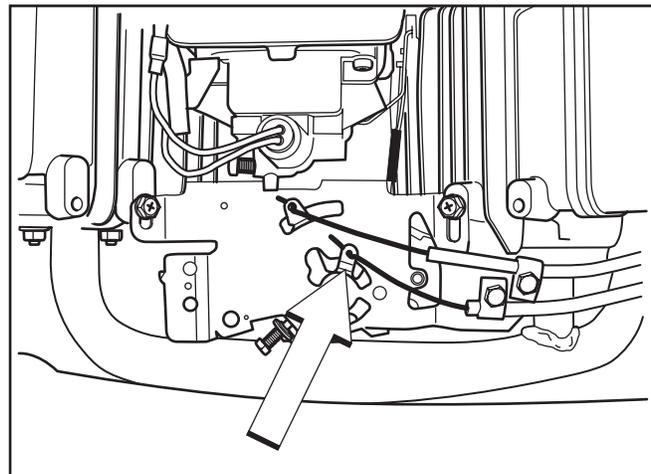
## Throttle Cable

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, locate the engine cables mounted under the air filter housing. The throttle cable sits on the right side of the engine.

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 middle hole in the throttle lever.
3. Push the throttle cable's outer casing as far to the left as possible and tighten the clamping screw.



8011-605

*Adjusting the throttle cable*

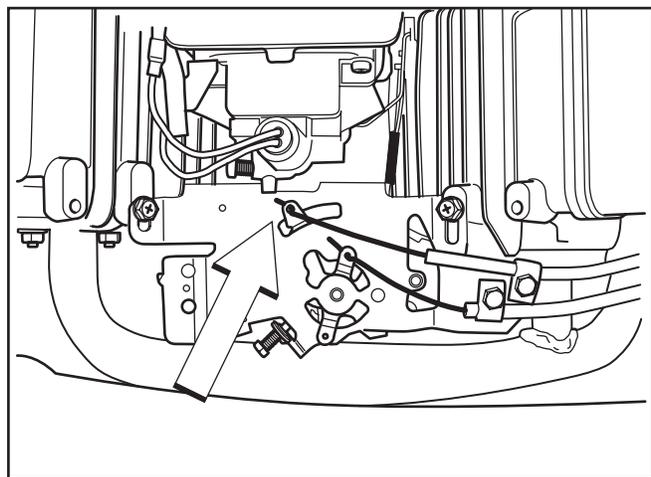
## Choke Cable

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:

1. 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.



8011-605

*Adjusting the choke cable*

# MAINTENANCE

## Air Filter

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!

**The engine and the exhaust system, become very hot during operation.**

**Risk for burns if touched.**

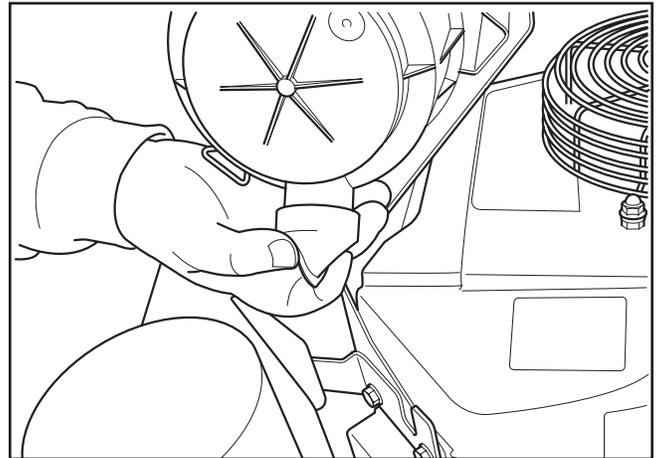
**Allow engine and exhaust system to cool at least two (2) minutes before servicing.**

## Dust cap

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

### IMPORTANT INFORMATION

**Operating the engine with loose or damaged air cleaner components could allow unfiltered air into the engine causing premature wear and failure.**



8011-447

*Pressing the rubber valve*

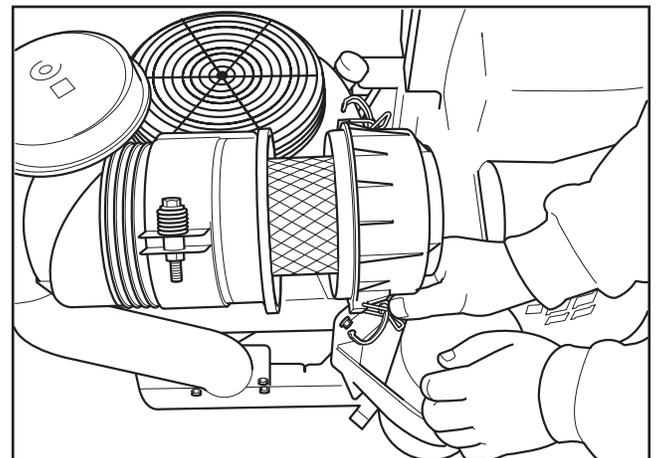
## Air filter housing and filter

Remove the end cover of the air filter housing by unhooking the two retaining clips at each side.

### IMPORTANT INFORMATION

**Do not use compressed air to clean the air filter.**

**Filter should be assembled dry and not be oiled.**

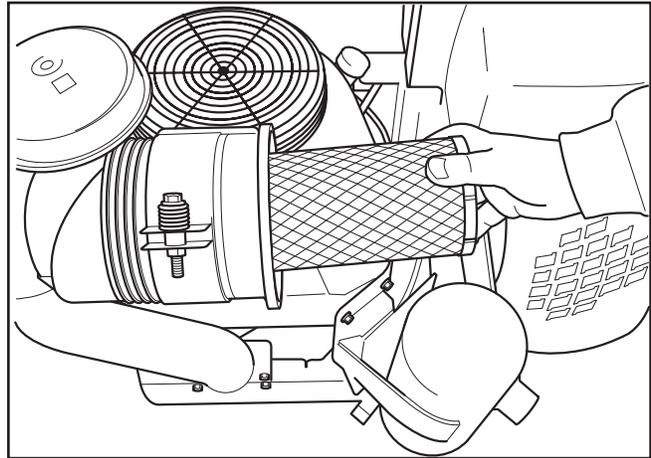


8011-448

*Removing the end cover*

# MAINTENANCE

1. Pull the main filter (outer) filter out.
2. Remove the inner filter.
3. Clean inside the filter housing, cover housing and dust cap. Wipe dry only.
4. Reinstall or replace the inner filter with the open end first, ensuring that it enters the housing recess. Push in to the end.
5. Reinstall or replace the outer filter with the open end first so that it enters the recess. Push in to the end.
6. Replace the end cover with the rubber valve pointing downwards and secure retaining clips.

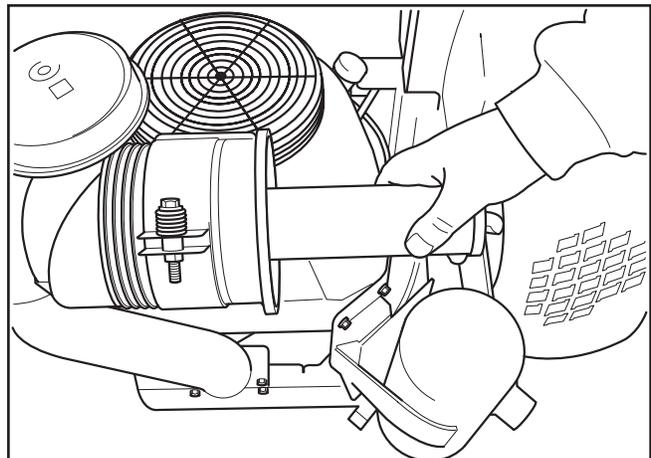


8011-449

*Removing the main filter*

## IMPORTANT INFORMATION

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

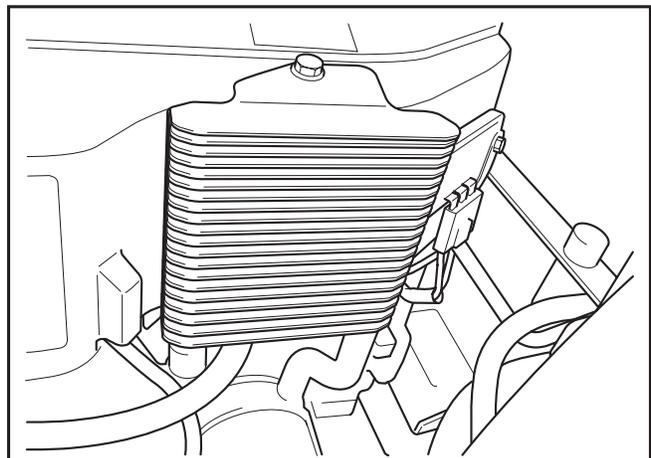


8011-450

*Removing the inner filter*

## Engine Oil Cooler

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.



8011-472

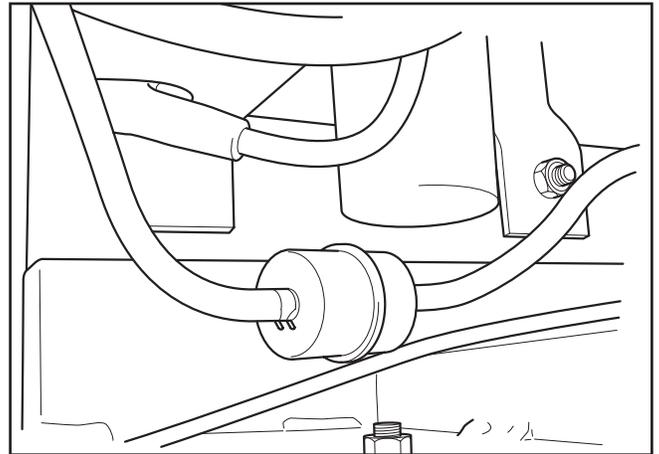
*Engine oil cooler*

# MAINTENANCE

## Fuel Filter

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

1. Move the hose clamps away from the filter. Use flat-nosed pliers.
  2. Pull the filter loose from the hose ends.
  3. 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.
- Checking the Fuel Pump's Air Filter



8011-468

*Kohler fuel filter*

## Fuel Pump Air Filter

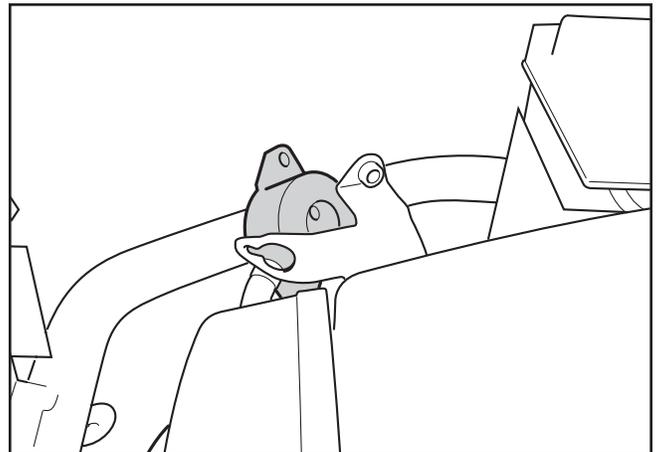
Regularly check that the fuel pump's air filter is free from dirt.

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

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

*Fuel pump air filter*

# MAINTENANCE

## Checking the V-belts

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

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

The belts are not adjustable. Replace belts if they begin to slip from wear.

## Deck belt

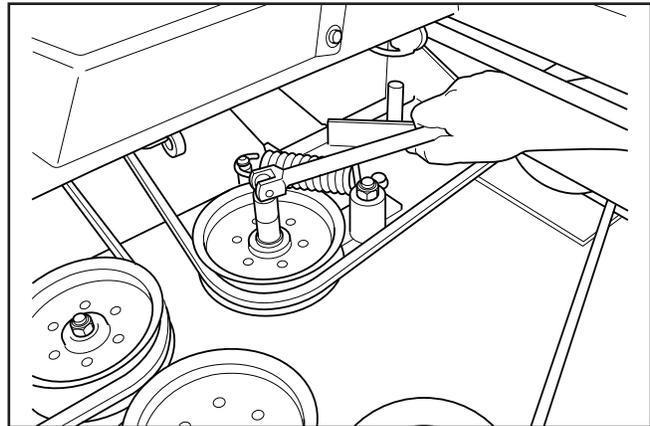
### To replace deck belt

- Park on a level surface. Apply park brake.
- Lower the deck to the lowest cutting position.
- Remove foot plate
- Remove screws from both the left and right belt shields, and remove shields.
- Remove any dirt or grass that may have accumulated around the cutter housings and entire deck surface.
- Use a ratchet with a  $\frac{9}{16}$ " socket on the spring idler bolt to relieve the tension on the belt.
- Carefully roll the belt over the top of the cutter housing pulleys.
- Remove the belt from around the electric clutch on the engine shaft.
- Reverse the procedure for installation. See the decal on the top of the deck for belt routing information.
- After installation, check the belt for twists.



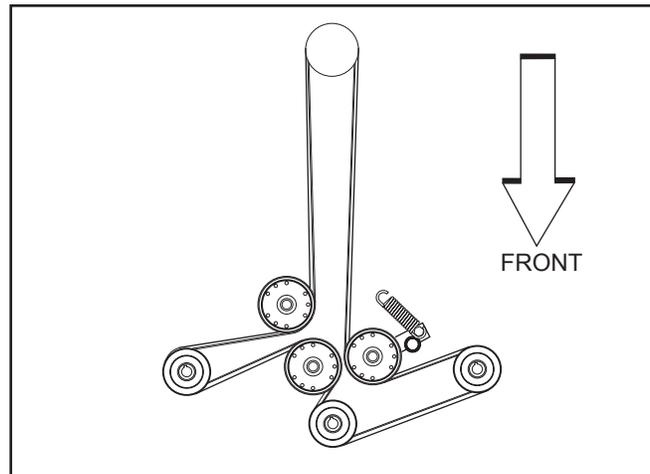
### WARNING!

The idler is spring loaded. Grip the idler arm or ratchet firmly and release slowly.



Slackening the belt tensioner

8011-622



Belt routing, deck belt

8011-580

# MAINTENANCE

## Pump belt

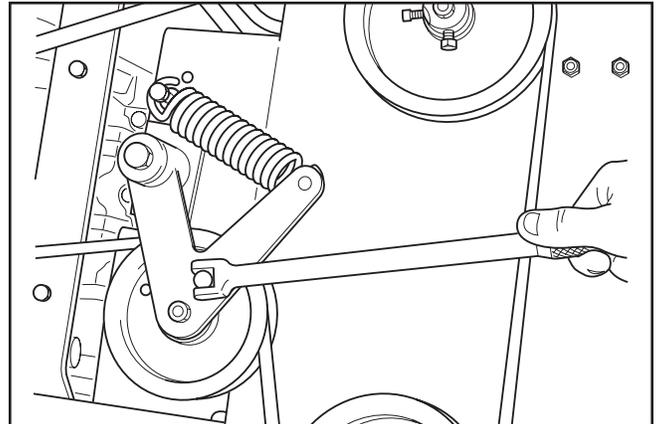
Check belt every 100 hours for excessive wear.

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

Using a ½" drive ratchet inserted into the square hole in the pump idler arm, relieve the tension on the pump belt and remove belt.

To reinstall the 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.

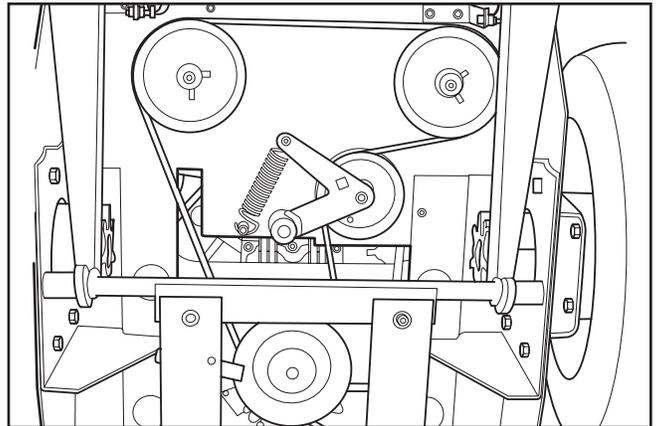


8011-623

*Slackening the belt tension*

## Tire Pressures

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



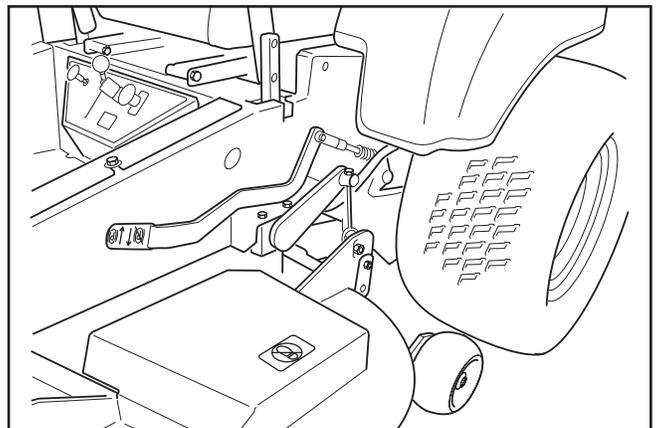
8011-624

*Belt routing, hydraulic pumps*

## 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 sufficient braking action.

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



8011-511-1

*Released parking brake*



### WARNING!

Faulty adjustment of the parking brake can cause an accident.

# MAINTENANCE

## Cutter Blades

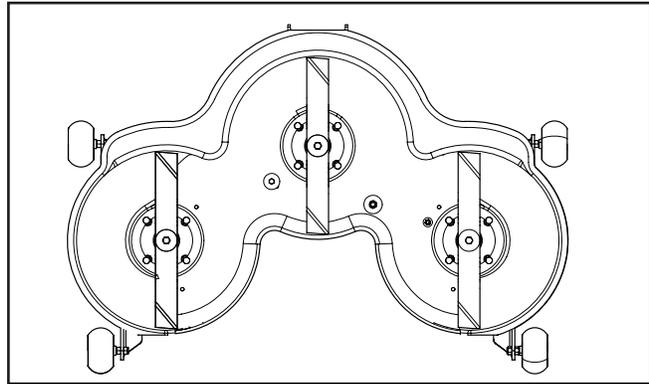
To attain the best mowing effect, it is important that the blades are well sharpened and not damaged.



**WARNING!**

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





8011-604-02

Check the blades

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

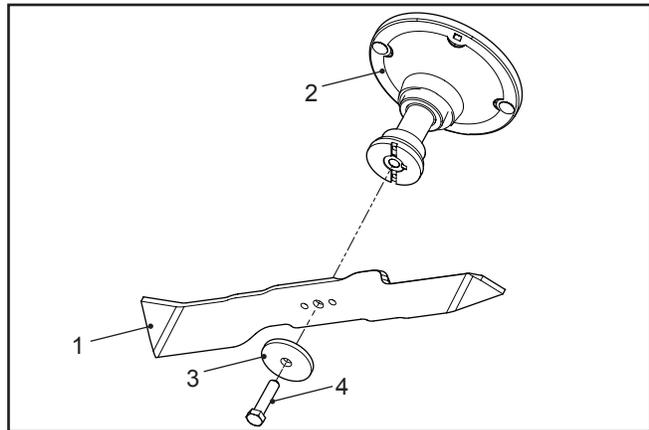
Damaged blades should be replaced when hitting obstacles that result in a breakdown. Let the service workshop decide whether the blade can be repaired/ground or must be replaced.

Balance the blades after sharpening.

Check the blade mounts.

**IMPORTANT INFORMATION**

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



8058-013-1

1. Blade
  2. Cutter housing
  3. Washer
  4. Blade bolt, special
- Blade attachment*

## Blade Replacement

- Remove blade bolt by turning counterclockwise.
- 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 a lower grade hardware than specified.**

# MAINTENANCE

## Adjusting the Mower Deck



### WARNING!

Before performing any service or adjustment checklist:

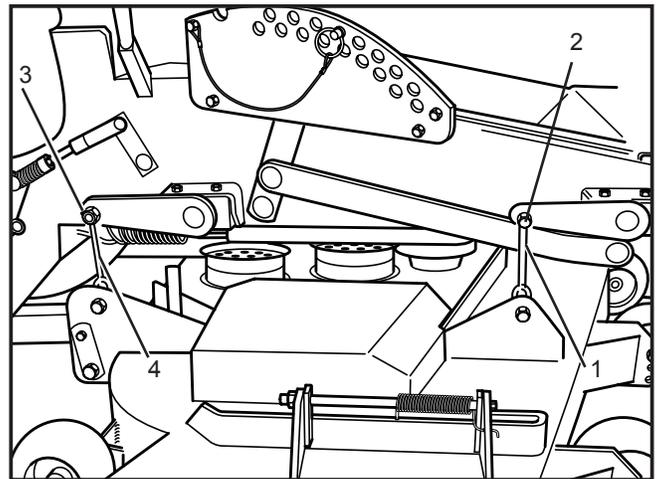
1. Engage the parking brake.
2. Place the Blade switch in the disengaged position.
3. Turn ignition switch to "OFF" position and remove the key.
4. Make sure the blades and all moving parts have completely stopped.
5. Disconnect the spark plug wire from all spark plugs and place the wire where it cannot 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".
3. Rotate blades to align front to back.
4. Set the cutting height to 4".
5. Measure front blade tip, should be 4" from ground, if not turn locknut on top of front eyebolt till measurement is achieved. Check blade tip at front on opposite front blade. Adjust locknut on front eyebolt as necessary.
6. Check rear blade measurement, should be 4¼" from ground, if not turn locknut on top of rear eyebolt to achieve measurement. Repeat procedure on opposite side.

### 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.
3. 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).



8011-601-1

1. Front eyebolt
2. Front locknut
3. Rear locknut
4. Rear eyebolt

*Leveling the mower deck*



### WARNING!

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



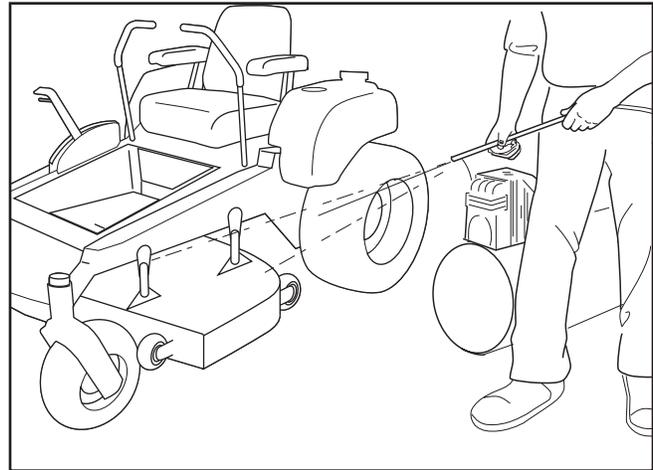
# MAINTENANCE

## Cleaning

Regular cleaning and washing, especially under the mower deck, will increase the machine's life-span. 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. Regularly clean deck and underside of the deck with normal water pressure. Do not use a high pressure washer or steam cleaner. Avoid spraying engine and electrical components with water.

Do not rinse hot surfaces with cold water. Let unit cool before washing.



8011-514

Cleaning



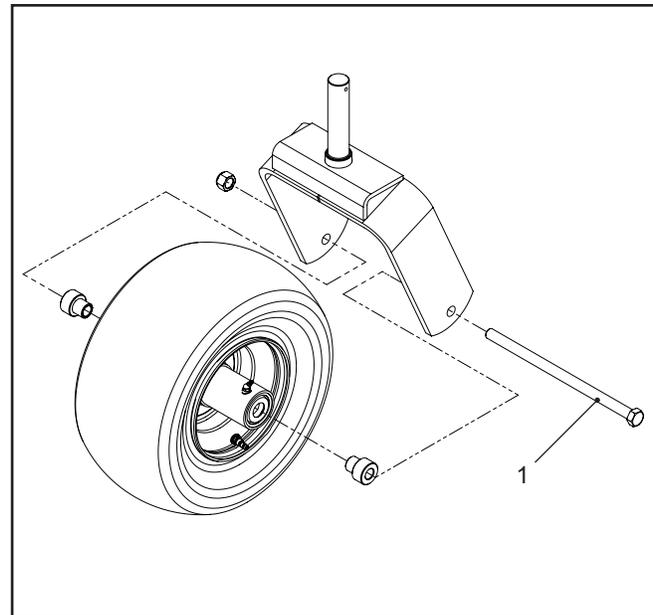
**Use protective glasses when cleaning and washing.**

## Caster Wheels

Check every 200 hours. Check that wheels rotate freely. If not, take the unit to your dealer for service. Foam filled tires or solid tires will void the warranty.

### Removal and installation of caster wheel

Remove nut and caster bolt.



8011-619-5

1. Caster bolt  
Caster wheel

### 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.**

Pull the wheel out of the fork and take care of the sleeve.

Install in reverse order. Tighten caster bolt.

## Hardware

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

# LUBRICATION

## Lubrication Schedule

12/12	1/52	1/365	LZ		25h	50h	100h	200h	300h
					5			 (2x)	
					6	 (2x)			
					7	 (2x)			
					8				
			1		9				
			2		10	 (2x)			
					1				
					11	 (2x)			
			3		12			 (2x)	
			4		3				
					13				

8011-765-2

Lubrication schedule and Symbol Key

12/12= Every year

Lubricate with grease gun 

Lubricate with oil can 

1/52= Every Week

Oil change 

Level check 

1/365= Every day

Filter change 

### 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 disulphide grease.

For daily use, the machine shall 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.

# LUBRICATION

## 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.

## Following the Lubrication Schedule

### Hydraulic System, Oil Level

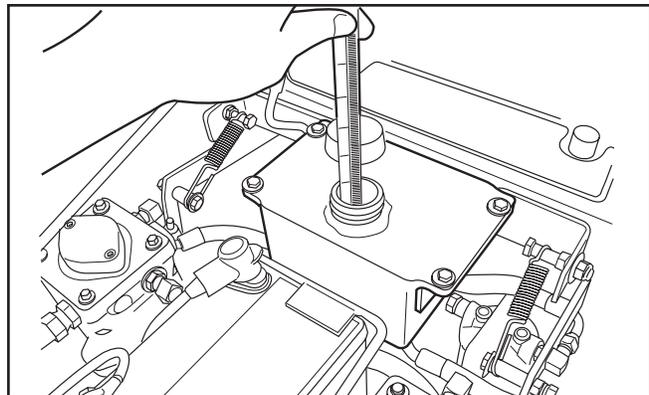
The hydraulic oil and filter must be replaced every 300 hours, and at least once a year. Contact an authorized service workshop.

Check the oil level in the hydraulic tank daily. The level shall be about  $\frac{3}{4}$ "-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 for the hydraulic system should be carried out by an authorized service workshop due to the risk of impurities enter the system.



8011-565

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 medical treatment is not administered immediately.

# LUBRICATION

## Engine Oil

### 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.

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 oil.

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 the section on *Oil Type*. Always check the level with the dipstick before adding more oil.
- 5. Reinstall the oil fill cap/dipstick and tighten securely.
- 6. Start the engine. Run it for a few seconds and recheck the oil level.



### WARNING!

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

### 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.**

### 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.**

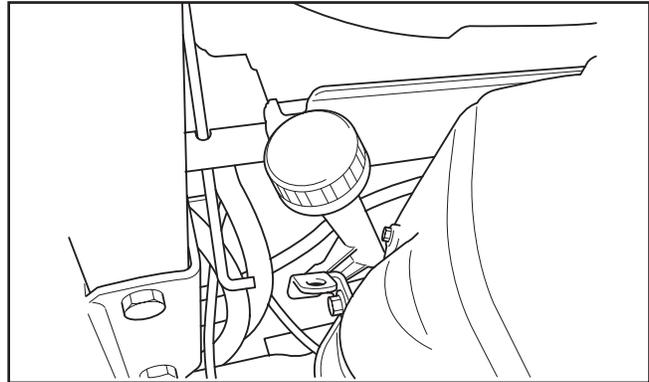
# LUBRICATION

## Checking Oil Level

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

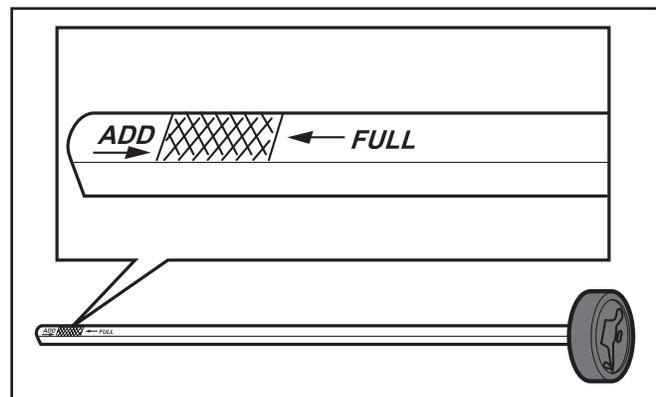
Check oil before each use as follows:

1. Make sure the engine is stopped, level, and cool so the oil has had time to drain into the oil pan.
2. To keep dirt, debris, etc., out of the engine, clean the area around the dipstick before removing it.
3. 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.
4. 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.
5. If the level is low, add oil of the proper type, up to the "FULL" mark on the dipstick. Refer to Oil Type. Always check the level with the dipstick before adding more oil.



8011-471

Oil dipstick



8009-159

Level marking

# LUBRICATION

## 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.

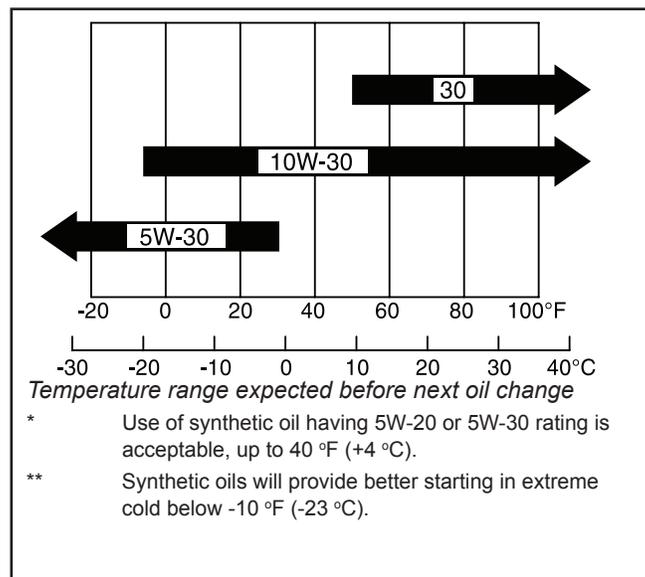
### IMPORTANT INFORMATION

**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 classifications 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.



8011-046

Viscosity grades table

# LUBRICATION

## 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.

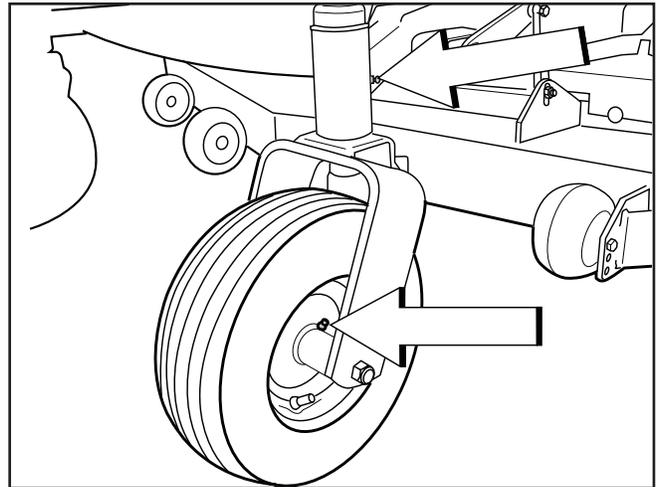
On Kohler engine the cables are placed under the air filter housing.

## 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.



8011-573-

*Lubricating the front wheels*

## 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.

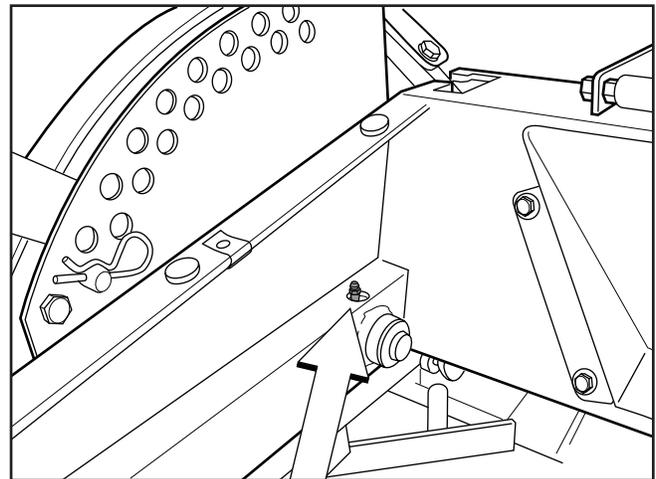
Grease from well-known brand names (petrochemical companies, etc.) usually maintains a good quality.

## Mower Deck Height Adjuster

Lubricate using a grease gun, one zerk on right side, 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*

# LUBRICATION

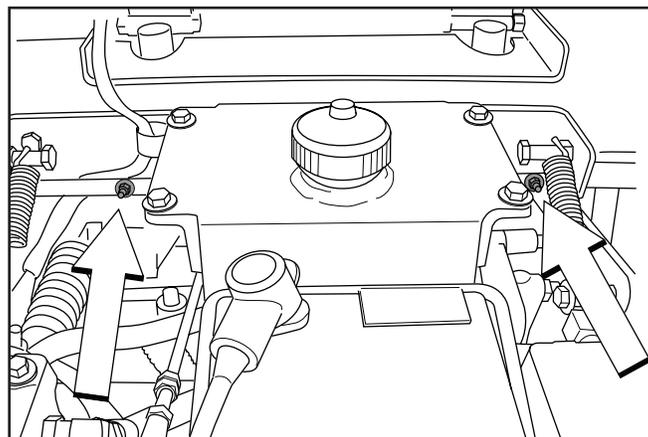
## Steering Control Shafts

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

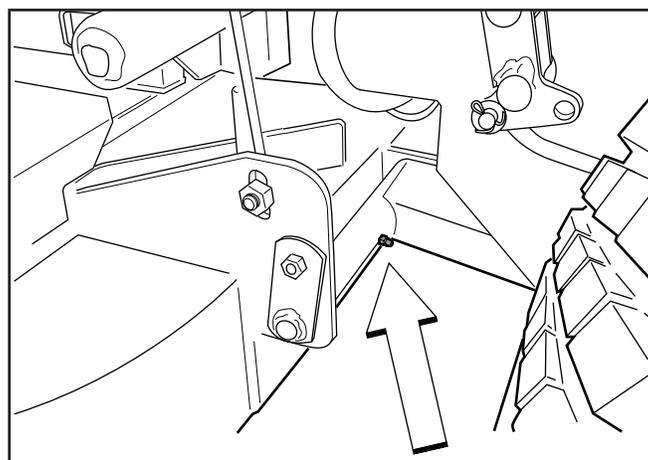
*Lubricating the steering control shafts*

## 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.

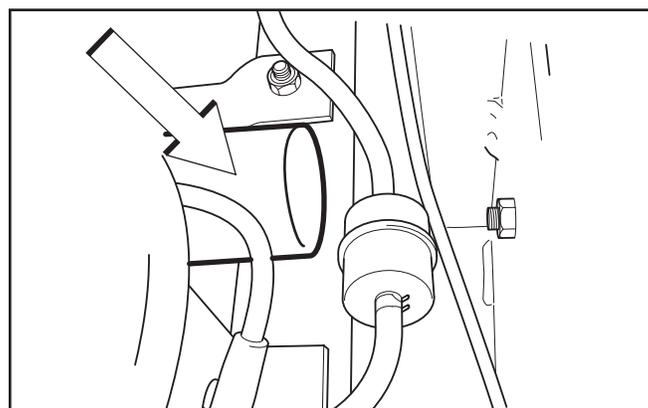


8011-577-1

*Lubricating struts*

## Oil Filter

1. Drain the engine oil in accordance with the work description under the heading "Engine Oil/Change Engine Oil".
2. Remove the oil filter. If necessary, use a filter remover.
3. Wipe new, clean engine oil onto the seal for the new filter.
4. Mount the filter by hand with a  $\frac{3}{4}$  turn.
5. Run the engine warm, then check that 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.



8011-745

*Changing the oil filter*

# TROUBLESHOOTING GUIDE

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## Problem

## Cause

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The engine will not start.

- The blade switch is engaged.
  - The steering controls are not locked in the neutral position.
  - The driver is not sitting in the driver's seat.
  - The parking brake is not activated.
  - The battery is dead.
  - Contamination in the carburetor or fuel line.
  - The fuel supply is closed or the tap for the fuel tank is in the wrong position.
  - Clogged fuel filter or fuel line.
- 

The starter does not turn the engine over.

- Dead battery.
  - Poor contacts on the battery terminal cable connections.
  - Fuse blown.
  - Ignition system faulty.
  - Fault in the starter safety circuit. See Checking the Safety System in the "Maintenance Section,"
- 

The engine runs rough.

- Faulty carburetor.
- The choke control is pulled out with warm engine.
- Defective valves.
- Defective piston, cylinder, piston ring, or cylinder head seal.
- The cylinder head bolts are loose.
- Clogged fuel filter or jet.
- Clogged ventilation valve on the fuel cap.
- Fuel tank nearly empty.
- Fouled spark plug.
- The spark plug is loose.
- Defective ignition cable.
- Defective spark plug electrode.
- Defective spark plug connection.
- Rich fuel mixture or fuel-air mixture.
- Wrong fuel type.
- Water in the fuel.
- Clogged air filter.
- Air trapped in hydraulic system.

# TROUBLESHOOTING GUIDE

<b>Problem</b>	<b>Cause</b>
The engine seems weak.	<ul style="list-style-type: none"><li>• Clogged air filter.</li><li>• Fouled spark plugs.</li><li>• Carburetor incorrectly adjusted.</li></ul>
The engine overheats.	<ul style="list-style-type: none"><li>• Clogged air intake or cooling fins.</li><li>• Engine overloaded.</li><li>• Poor ventilation around engine.</li><li>• Defective engine speed regulator.</li><li>• Soot in the combustion chamber.</li><li>• Too little or no oil in the engine.</li><li>• Fouled spark plug.</li><li>• Pre-ignition incorrect.</li></ul>
Battery not charging.	<ul style="list-style-type: none"><li>• Poor contact with battery terminal cable connectors.</li></ul>
The machine moves slowly, unevenly, or not at all.	<ul style="list-style-type: none"><li>• Parking brake on.</li><li>• Bypass valve on pump open.</li><li>• Drive belt for the transmission gears slack or has come off.</li><li>• Defective hydraulic system.</li><li>• Air in hydraulic system.</li></ul>
Mower deck not engaging.	<ul style="list-style-type: none"><li>• Drive belt for the mower deck has come loose.</li><li>• Contact for the electromagnetic coupling has loosened.</li><li>• The blade switch is faulty or has come loose, from the cable contact.</li><li>• The fuse has blown.</li></ul>
Transaxle leaks oil.	<ul style="list-style-type: none"><li>• Damaged seals, housing, or gaskets.</li><li>• Air trapped in hydraulic system.</li></ul>
Uneven mowing results.	<ul style="list-style-type: none"><li>• Different air pressure in the tires on the left and right sides.</li><li>• Bent blades.</li><li>• The suspension for the mower deck is uneven.</li><li>• The blades are dull.</li><li>• Driving speed too high.</li><li>• The grass is too long.</li><li>• Grass collected under the mower deck.</li></ul>
The machine vibrates.	<ul style="list-style-type: none"><li>• The blades are loose.</li><li>• The blades are incorrectly balanced.</li><li>• The engine is loose.</li></ul>

# STORAGE

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## 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 to the sticky residues that can occur 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 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.**

To ready the machine for storage, follow these steps:

1. 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.
2. 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.
4. 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.
5. Remove the spark plug and pour about a tablespoon of engine oil into the cylinder. Turn over the engine so that the oil is evenly distributed and then refit the spark plug.
6. Lubricate all grease zerks, joints, and axles.
7. Remove the battery. Clean, charge, and store the battery in a cool place, but protect it from direct cold.
8. Store the machine in a clean, dry place and cover it for extra protection.

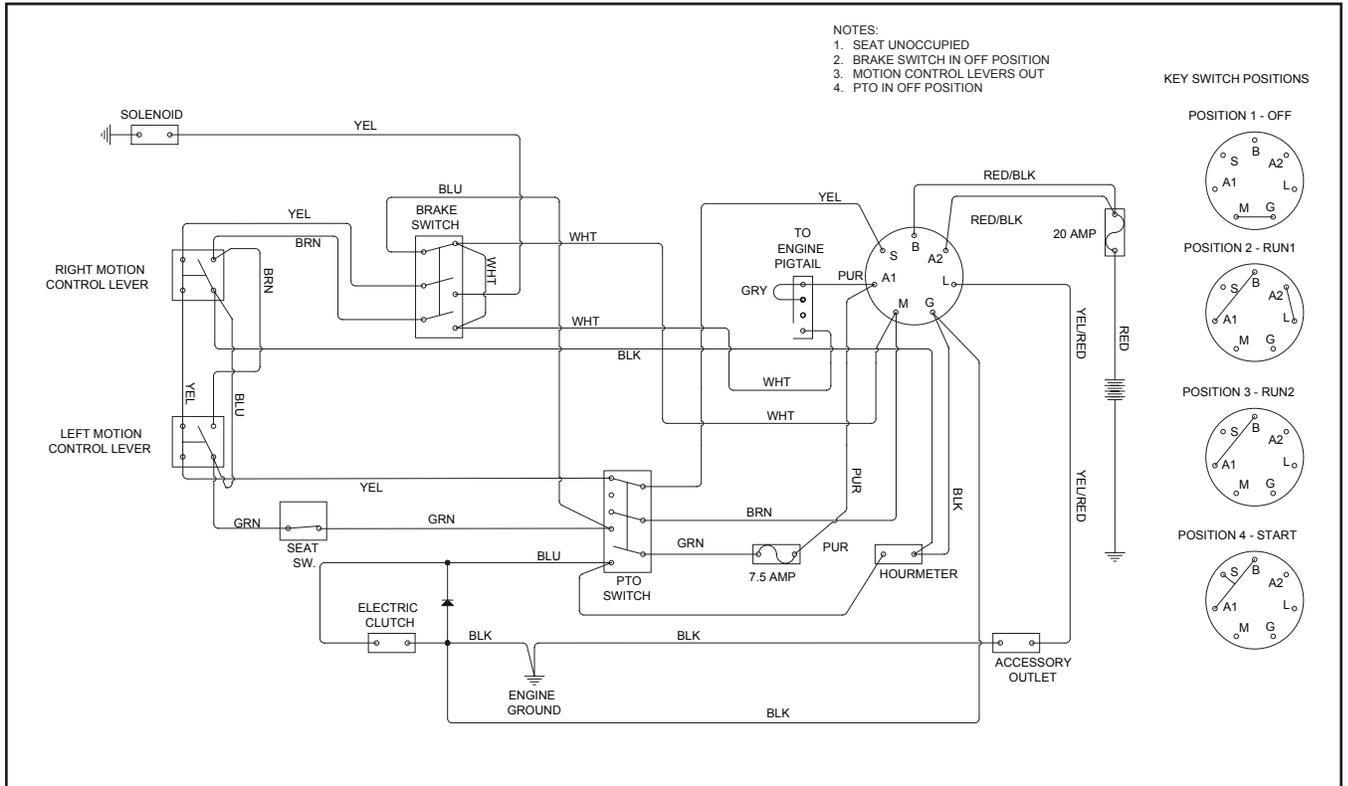
## Service

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 DIAGRAM



# TECHNICAL DATA

	<b>LZC5225 / 965879601</b>	<b>LZC5227 / 965879701</b>
<b>Engine</b>		
Manufacturer	Kawasaki	Kohler
Type	FH721V	CV740S
Power	25 hp* / 18.4 kW	27hp* / 22.4kW
Lubrication	Pressure with oil filter	Pressure with oil filter
Oil capacity excluding filter	1.6 qt / 1.7 liters	1.6 qts/ 1.5 liters
Oil capacity including filter	1.8 qt / 1.9 liters	1.7 qts / 1.6 liters
Engine oil (See viscosity diagram)	SAE 10W30, 5W20, 5W30 API SF-SJ	SAE 10W30, 10W40, 5W20, 5W30, API SF-SJ
Fuel	Min 87 octane unleaded (Max ethanol 10%, Max MTBE 15%)	Min 87 octane unleaded (Max ethanol 10%, Max MTBE 15%)
Fuel tank capacity	11.4 gallon / 43.2 liters	11.4 gallon / 43.2 liters
Spark plugs / gap	NGK BPR4ES .030" / 0.75 mm	Champion XC12YC .030" / 0.75 mm
Cooling	Air cooled	Air cooled
Air filter	Heavy duty canister	Standard
Alternator	12V	12V
Starter	Electric	Electric
<b>Transmission</b>		
Transmission	Hydrostatic transaxles	Hydrostatic transaxles
Speed and direction controls	Dual levers, foam gripped	Dual levers, foam gripped
Speed forward	0-10 mph / 0-16.1 km/h	0-11 mph / 0-17.7 km/h
Speed reverse	0-4 mph / 0-6 km/h	0-5 mph / 0-8 km/h
Brakes	Mechanical parking brake	Mechanical parking brake
Front caster tires, smooth tread	13 x 6.5-6, 4 ply	13 x 6.5-6 4 ply
Rear tires, turf pneumatic	23 X 9.5-12 Tubeless	23 X 9.5-12 Tubeless
Tire pressure	15 PSI / 103 kPa / 1 bar	15 PSI / 103 kPa / 1 bar

# TECHNICAL DATA

	<b>LZC5225 / 965879601</b>	<b>LZC5227 / 965879701</b>
<b>Frame</b>		
Cutting Width	52" / 132 cm	52" / 132 cm
Cutting Height	1½ - 6" / 3.8 - 15.2 cm	1½ - 6" / 3.8 - 15.2 cm
Uncut Circle	0	0
Number of Blades	3	3
Blade Length	18" / 46 cm	18" / 46 cm
Nose Rollers	No	No
Sprung Seat	Standard	Standard
Hinged Arm Rests	No	No
Hour Meter	Standard	Standard
Blade Engagement	200 ft/lb Warner	200 ft/lb Warner
Deck Construction	12 gauge, stamped steel	12 gauge, stamped steel
Productivity	4.3 acres/h / 17415 m2/h	4.3 acres/h / 17415 m2/h
<b>Dimension</b>		
Weight	1030 lbs / 467 kg	1030 lbs / 467 kg
Base Machine Length	82" / 208 cm	82" / 208 cm
Base Machine Height	55" / 140 cm	55" / 140 cm
Base Machine Width	53" / 135 cm	53" / 135 cm

# TECHNICAL DATA

	<b>LZC6130 / 965879801</b>	<b>LZ30 / 968999776</b>
<b>Engine</b>		
Manufacturer	Kohler	Kohler
Type	CV747S	CV747S
Power	30hp* / 22.4kW	30hp* / 22.4kW
Lubrication	Pressure with oil filter	Pressure with oil filter
Oil capacity excluding filter	1.6 qt / 1.7 liters	1.6 qts/ 1.5 liters
Oil capacity including filter	1.8 qt / 1.9 liters	1.7 qts / 1.6 liters
Engine oil (See viscosity diagram)	SAE 10W30, 5W20, 5W30 API SF-SJ	SAE 10W30, 10W40, 5W20, 5W30, API SF-SJ
Fuel	Min 87 octane unleaded (Max ethanol 10%, Max MTBE 15%)	Min 87 octane unleaded (Max ethanol 10%, Max MTBE 15%)
Fuel tank capacity	11.4 gallon / 43.2 liters	11.4 gallon / 43.2 liters
Spark plugs / gap	Champion RC12YC .030" / 0.75 mm	Champion XC12YC .030" / 0.75 mm
Cooling	Air cooled	Air cooled
Air filter	Standard	Standard
Alternator	12V	12V
Starter	Electric	Electric
<b>Transmission</b>		
Transmission	Hydrostatic transaxles	Hydrostatic transaxles
Speed and direction controls	Dual levers, foam gripped	Dual levers, foam gripped
Speed forward	0-11 mph / 0-17.7 km/h	0-11 mph / 0-17.7 km/h
Speed reverse	0-5 mph / 0-8 km/h	0-5 mph / 0-8 km/h
Brakes	Mechanical parking brake	Mechanical parking brake
Front caster tires, smooth tread	13 x 6.5-6, 4 ply	13 x 6.5-6 4 ply
Rear tires, turf pneumatic	24 X 12.0-12 Tubeless	24 X 12.0-12 Tubeless
Tire pressure	15 PSI / 103 kPa / 1 bar	15 PSI / 103 kPa / 1 bar

# TECHNICAL DATA

	<b>LZC6130 / 965879801</b>	<b>LZ30 / 968999776</b>
<b>Frame</b>		
Cutting Width	61" / 155 cm	
Cutting Height	1½ - 6" / 3.8 - 15.2 cm	
Uncut Circle	0	
Number of Blades	3	
Blade Length	21" / 53 cm	
Nose Rollers	No	
Sprung Seat	Standard	Standard
Hinged Arm Rests	No	No
Hour Meter	Standard	Standard
Blade Engagement	200 ft/lb Warner	
Deck Construction	12 gauge, stamped steel	
Productivity	5.1 acres /h 20639 m <sup>2</sup> /h	
<b>Dimension</b>		
Weight	1060 lbs / 481 kg	827 lbs / 375 kg
Base Machine Length	82" / 208 cm	82" / 208 cm
Base Machine Height	55" / 140 cm	55" / 140 cm
Base Machine Width	53" / 135 cm	53" / 135 cm

# TECHNICAL DATA

## Accessories

Collection system

### Torque Specifications

Engine crankshaft bolt	50 ft/lb (67 Nm)	Standard 1/4" fasteners	9 ft/lb (12 Nm)
Deck pulley bolts	150 ft/lb (203 Nm)	Standard 5/16" fasteners	18 ft/lb (25 Nm)
Lug nuts	75 ft/lb (100 Nm)	Standard 3/8" fasteners	33 ft/lb (44 Nm)
Blade bolt	90 ft/lb (122 Nm)	Standard 7/16" fasteners	52 ft/lb (70 Nm)
		Standard 1/2" fasteners	80 ft/lb (110 Nm)

### HEX HEAD CAP SCREWS

The torque values shown should be used as a general guideline when specific torque values are not given.

#### U.S. Standard Hardware

Grade		SAE Grade 5		SAE Grade 8		Flangelock Screw w/Flangelock Nut	
Size		ft./lbs	Nm	ft./lbs	Nm	ft./lbs	Nm
Shank Size (Diameter in inches, fine or coarse thread)	1/4	9	12	13	18		
	5/16	18	24	28	38	24	33
	3/8	31	42	46	62	40	54
	7/16	50	68	75	108		
	1/2	75	102	115	156		
	9/16	110	150	165	224		
	5/8	150	203	225	305		
	3/4	250	339	370	502		
	7/8	378	513	591	801		
	1 1/8	782	1060	1410	1912		

\*\* Grade 5 - Minimum commercial quality (lower quality not recommended)

#### Metric Standard Hardware

Grade		Grade 8.8		Grade 10.9		Grade 12.9	
Size		ft./lbs	Nm	ft./lbs	Nm	ft./lbs	Nm
Shank Size (Diameter in inches, fine or coarse thread)	M4	1.5	2	2.2	3	2.7	3.6
	M5	3	4	4.5	6	5.2	7
	M6	5.2	7	7.5	10	8.2	11
	M7	8.2	11	12	16	15	20
	M8	13.5	18	18.8	25	21.8	29
	M10	24	32	35.2	47	43.5	58
	M12	43.5	58	62.2	83	75	100
	M14	70.5	94	100	133	119	159
	M16	108	144	147	196	176	235
	M18	142	190	202	269	242	323
	M20	195	260	275	366	330	440
	M22	276	368	390	520	471	628
	M24	353	470	498	664	596	794
	M27	530	707	474	996	904	1205

# CONFORMITY CERTIFICATES

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## **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, (California 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 as they are valuable documents.

## **CE requirements**

The Declaration of Conformity is included in the literature packet.

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

# WARRANTY

All Husqvarna products can be registered online at [www.usa.husqvarna.com](http://www.usa.husqvarna.com) quickly and easily regardless of their model year. Click the Support tab, click on the Online Product Registration link and fill out the electronic form and submit. Ask about Husqvarna's extended service plan!

<b>SECTION 1 - LIMITED WARRANTY</b>			
<i>Husqvarna Professional Products, Inc ("Husqvarna") warrants the original purchaser the Husqvarna branded product to which this warranty apply (the "Product") that the Product shall be free from defects in material and workmanship from the date of purchase for the period of the applicable "Warranty Schedule" of the Product as set forth below. Additional limitations are described in Section 2 through 6, inclusive.</i>			
PRODUCT	CONSUMER WARRANTY SCHEDULE	COMMERCIAL/PROFESSIONAL WARRANTY SCHEDULE	RENTAL WARRANTY SCHEDULE
Zero Turn Rider	3 Years or 600 Hours	1 Year or 600 Hours	90 Days
All consumer product use must have been limited to the owner's residence. Warranted for noncommercial, nonprofessional, noninstitutional and nonincome producing use.			
<b>SECTION 2 - HUSQVARNA'S OBLIGATIONS UNDER THE WARRANTY</b>			
<i>Husqvarna will repair or replace defective components without charge for parts or labor if a component fails because of a defect in material or workmanship during the warranty period.</i>			
<b>SECTION 3 - ITEMS NOT COVERED BY THIS WARRANTY</b>			
<i>The following items are not covered by this warranty:</i>			
(1) Normal customer maintenance items which become worn through normal regular use, including, but not limited to belts, blades, blade adapters, bulbs, clutches, clutch drums, filters (fuel line, fuel filters, air filters, oil filters), sprockets, guide bars, lubricants, rewind springs, spark plugs;			
(2) Natural discoloration of material due to ultraviolet light;			
(3) Engine and drive systems not manufactured by Husqvarna; these items are covered by the respective manufacturer's warranty as provided in writing with the product information supplied at the time of purchase; all claims must be sent to the appropriate manufacturer.			
(4) Lawn and garden attachments that are covered by a third party which gives a warranty, all claims for warranty should be sent to the manufacturer.			
(5) Commercial or consumer mowing decks with sand abrasion damage.			
(6) Emission Control System components necessary to comply with CARB-TIER II and EPA regulations which are manufactured by third party engine manufacturer.			
<b>SECTION 4 - EXCEPTIONS AND LIMITATIONS</b>			
<i>This warranty shall be inapplicable to defects resulting from the following:</i>			
(1) Accident, abuse, misuse, negligence and neglect, including stale fuel, dirt, abrasives, moisture, rust, corrosion, or any adverse reaction due to incorrect storage or use habits;			
(2) Failure to operate or maintain the unit in accordance with the Owner's/Operator's manual or instruction sheet furnished by Husqvarna;			
(3) Alterations or modifications that change the intended use of the product or affects the product's performance, operation, safety, or durability, or causes the product to fail to comply with any applicable laws; or:			
(4) Additional damage to parts or components due to continued use occurring after any of the above.			
REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER. HUSQVARNA SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THESE PRODUCTS EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THESE PRODUCTS IS LIMITED IN DURATION TO THE WARRANTY PERIOD AS DEFINED IN THE LIMITED WARRANTY STATEMENT. HUSQVARNA RESERVES THE RIGHT TO CHANGE OR IMPROVE THE DESIGN OF THE PRODUCT WITHOUT NOTICE, AND DOES NOT ASSUME OBLIGATION TO UPDATE PREVIOUSLY MANUFACTURED PRODUCTS.			
Some states do not allow the exclusion of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary by state.			
<b>SECTION 5 - CUSTOMER RESPONSIBILITIES</b>			
<i>The product must exhibit reasonable care, maintenance, operation, storage and general upkeep as written in the maintenance section of the Owner's/ Operator's manual. Should an operational problem or failure occur, the product should not be used. Failure caused by continued use is not covered by warranty. Product should be delivered, at owners expense, as is, to an authorized Husqvarna Servicing Retailer for evaluation. Proof of purchase, as explained in section 6, rests solely with the customer.</i>			
<b>SECTION 6 - PROCEDURE TO OBTAIN WARRANTY CONSIDERATION</b>			
<i>It is the Owner's and Retailer's responsibility to make certain that the Warranty Registration Card is properly filled out and mailed to Husqvarna. This card should be mailed within ten (10) days from the date of purchase in order to confirm the warranty and to facilitate post-sale service. Proof of purchase must be presented to the authorized Husqvarna retailer in order to obtain warranty service. This proof must include date purchased, model number, serial number, and complete name and address of the selling retailer. To obtain the benefit of this warranty, the product believed to be defective must be delivered to an authorized Husqvarna retailer in a timely manner, no later than thirty (30) days from date of the operational problem or failure. The product must be delivered at the owner's expense. Downtime, pick-up and delivery charges are not covered by this warranty. An authorized Husqvarna retailer can be located by calling 1-800-HUSKY-62 or visiting <a href="http://www.husqvarna.com">www.husqvarna.com</a></i> <b>Subject to change without notice.</b>			

# SERVICE JOURNAL

Action	Date, mtr reading, stamp, sign
<p><b>Delivery Service</b></p> <ol style="list-style-type: none"> <li>1. Charge the battery. <span style="float: right;"><input type="checkbox"/></span></li> <li>2. Adjust the tire pressure of all wheels to 15 PSI (1 bar). <span style="float: right;"><input type="checkbox"/></span></li> <li>3. Mount the steering controls in the normal position. <span style="float: right;"><input type="checkbox"/></span></li> <li>4. Connect the contact box to the cable for the seat's safety switch. <span style="float: right;"><input type="checkbox"/></span></li> <li>5. Check that the right amount of oil is in the engine. <span style="float: right;"><input type="checkbox"/></span></li> <li>6. Adjust the position of the steering controls. <span style="float: right;"><input type="checkbox"/></span></li> <li>7. Fill with fuel and open the fuel shut off valve. <span style="float: right;"><input type="checkbox"/></span></li> <li>8. Start the engine. <span style="float: right;"><input type="checkbox"/></span></li> <li>9. Check that there is drive to both wheels. <span style="float: right;"><input type="checkbox"/></span></li> <li>10. Check the mower deck adjustment. <span style="float: right;"><input type="checkbox"/></span></li> <li>11. Check:               <ul style="list-style-type: none"> <li>The safety switch for the parking brake. <span style="float: right;"><input type="checkbox"/></span></li> <li>The safety switch for the mower deck. <span style="float: right;"><input type="checkbox"/></span></li> <li>The safety switch in the seat. <span style="float: right;"><input type="checkbox"/></span></li> <li>The safety switch in the steering controls. <span style="float: right;"><input type="checkbox"/></span></li> <li>Parking brake functionality. <span style="float: right;"><input type="checkbox"/></span></li> <li>Driving forward. <span style="float: right;"><input type="checkbox"/></span></li> <li>Driving backward. <span style="float: right;"><input type="checkbox"/></span></li> <li>Engaging the blades. <span style="float: right;"><input type="checkbox"/></span></li> </ul> </li> <li>12. Check the idle speed <span style="float: right;"><input type="checkbox"/></span></li> <li>13. Check the engine high idle speed <span style="float: right;"><input type="checkbox"/></span></li> <li>14. Inform the customer about:               <ul style="list-style-type: none"> <li>The need and advantages of following the service schedule.</li> <li>The need and advantages of leaving the machine for service every 300 hours.</li> <li>The effects of service and maintaining a service journal on the machine's resale value.</li> <li>Application areas for Mulching.</li> </ul> </li> <li>15. Fill in the sales papers, etc.</li> </ol>	<p>Delivery service has been carried out. No remaining notes. Certified:</p>

# SERVICE JOURNAL

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Action	Date, mtr reading, stamp, sign
<p><b>After the First 5-8 Hours</b></p> <p>1. Change engine oil.</p>	<input type="checkbox"/>

# SERVICE JOURNAL

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Action	Date, mtr reading, stamp, sign
<p><b>25-Hour Service</b></p> <ol style="list-style-type: none"><li>1. Check the fuel pump's air filter.</li><li>2. Sharpen/Replace mower blades if required.</li><li>3. Check the tire pressures.</li><li>4. Check battery with cables.</li><li>5. Lubricate according to lubrication chart.</li><li>6. Check/clean the engine's cooling air intake.</li><li>7. Clean the air cleaner's pre-filter (foam).</li></ol>	

# SERVICE JOURNAL

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Action	Date, mtr reading, stamp, sign
<p><b>50-Hour Service</b></p> <ol style="list-style-type: none"><li>1. Perform the 25-hour service.</li><li>2. Clean/replace the air cleaner's filter cartridge (paper filter) (shorter intervals for dusty operating conditions).</li><li>3. Change engine oil.</li><li>4. Lubricate according to lubrication chart.</li><li>5. Check/adjust the parking brake.</li></ol>	

# SERVICE JOURNAL

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Action	Date, mtr reading, stamp, sign
<p><b>100-Hour Service</b></p> <ol style="list-style-type: none"><li>1. Perform the 25-hour service.</li><li>2. Perform the 50-hour service.</li><li>3. Change the engine oil filter.</li><li>4. Clean/replace the spark plugs.</li><li>5. Replace the fuel filter.</li><li>6. Clean the cooling fins on the engine and transmission.</li><li>7. Check V-belts.</li><li>8. Check tighten caster wheel axle bolts (every 200 hours).</li><li>9. Change the air filter's paper cartridge.</li></ol>	

# SERVICE JOURNAL

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Action	Date, mtr reading, stamp, sign
<p><b>300-Hour Service</b></p> <ol style="list-style-type: none"><li>1. Inspect the machine. Come to agreement with the customer as to which additional work is to be carried out.</li><li>2. Perform the 25-hour service.</li><li>3. Perform the 50-hour service.</li><li>4. Perform the 100-hour service.</li><li>5. Check/adjust the mower deck.</li><li>6. Clean the combustion chamber and grind the valve seats.</li><li>7. Check the engine valve clearance.</li><li>8. Replace the air cleaner's pre-filter (foam).</li></ol>	

# SERVICE JOURNAL

Action	Date, mtr reading, stamp, sign
<p><b>At Least Once Each Year</b></p> <ol style="list-style-type: none"><li>1. Clean the engine's cooling air intake (25 hours).</li><li>2. Replace the air cleaner's pre-filter (foam) (300 hours).</li><li>3. Replace the air filter's paper cartridge.</li><li>4. Change the engine oil (50 hours).</li><li>5. Replace the engine oil filter (100 hours).</li><li>6. Check/adjust the cutting height.</li><li>7. Check/adjust the parking brake (50 hours).</li><li>8. Clean/Change the spark plugs (100 hours).</li><li>9. Change the fuel filter (100 hours).</li><li>10. Clean the cooling fins (100 hours).</li><li>11. Check the engine valve clearance.</li><li>12. Perform the 300-hour service at an authorized service workshop.</li></ol>	





