



# Operator Manual

## Zero Turn Mower / PZ 34

### 966 553901-04

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

Gasoline containing up to 10% ethanol (E10) is permitted for use in this machine. The use of gasoline with more than 10% ethanol (E10) will void the product warranty.

EN



# CONFORMITY CERTIFICATES

## USA requirements

Labels are placed on the engine and/or in the engine compartment stating that the machine will fulfill the requirements. This is also applicable to special requirements for any of the states, (California emission rules etc.). Do not remove 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.

 **WARNING!** Failure to follow cautious operating practices can result in dangerous injury to the operator or other persons. The owner must understand these instructions, and must let only approved 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 mind altering substances.

 **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!** 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. Clean your hands after handling.

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

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

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.

# CONTENTS

|   |    |                               |    |
|---|----|-------------------------------|----|
| INTRODUCTION.....                           | 4  | OPERATION .....               | 17 |
| Driving and Transport on Public Roads ..... | 4  | Training.....                 | 17 |
| Towing .....                                | 4  | Roll Bar.....                 | 17 |
| Operating.....                              | 4  | Operating on Hills.....       | 19 |
| SYMBOLS AND DECALS.....                     | 6  | Moving Machine By Hand.....   | 20 |
| SAFETY .....                                | 7  | MAINTENANCE.....              | 21 |
| Protecting Children.....                    | 7  | Battery .....                 | 23 |
| Personal Safety Equipment .....             | 8  | Safety System .....           | 24 |
| Slope Operation.....                        | 8  | Tire Pressures .....          | 24 |
| Safe Handling of Gasoline.....              | 9  | Deck Belt .....               | 24 |
| Transport .....                             | 10 | Pump Belt.....                | 25 |
| Towing .....                                | 10 | Adjusting the Mower Deck..... | 26 |
| Rollover Protection System .....            | 11 | Cutting Blades .....          | 26 |
| Spark Arrestor.....                         | 11 | Deck Lift Spring .....        | 27 |
| CONTROLS .....                              | 12 | Park Brake.....               | 27 |
| Steering Control Levers.....                | 13 | Caster Wheels.....            | 27 |
| Park Brake.....                             | 13 | Anti-scalp Rollers.....       | 28 |
| Throttle Control.....                       | 13 | Spark Arrestor.....           | 28 |
| Choke Control.....                          | 14 | Cleaning .....                | 28 |
| Blade Switch .....                          | 14 | LUBRICATION.....              | 29 |
| Ignition Switch .....                       | 14 | Engine Oil .....              | 30 |
| Service Meter .....                         | 14 | Wheel and Deck Zerks .....    | 30 |
| Seat Adjustment Lever .....                 | 14 | Transaxle Fluid Change.....   | 31 |
| Fuses.....                                  | 15 | TROUBLESHOOTING.....          | 32 |
| Fuel Shut Off Valve.....                    | 15 | STORAGE.....                  | 33 |
| Cutting Height Pedals.....                  | 15 | SCHMATIC .....                | 34 |
| Fuel Tank .....                             | 16 | TECHNICAL DATA.....           | 35 |
| Tracking.....                               | 16 | SERVICE JOURNAL.....          | 37 |

# INTRODUCTION

## 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 manual to the new owner.

The final chapter of this operator manual provides a Service Journal. Make sure that service and repair work are documented. A correctly 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 manual along when the machine is taken to your dealer for service.

## General

In this operator manual, left and right, backward and forward are used in relation to the machine's usual 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 make sure that the machine is correctly attached. DO NOT operate this machine on public roadways.

## Towing

If machine is equipped with a tow hitch, use much more caution when towing. Do not let children or others in or on the towed equipment. Make wide turns to avoid jack-knifing. Travel slowly and leave more 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 resulting personal injury or property damage.

# INTRODUCTION

## Good Service

Husqvarna's products are sold throughout 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 manual.

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

|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

|   |        |              |
|---|--------|--------------|
| This 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 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

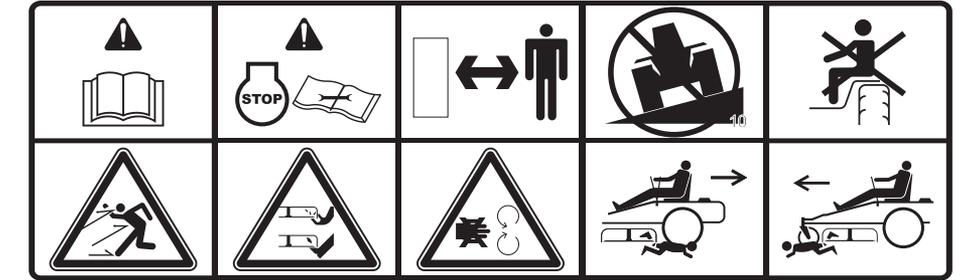
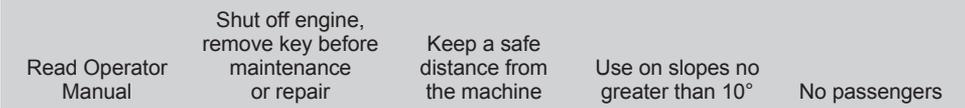
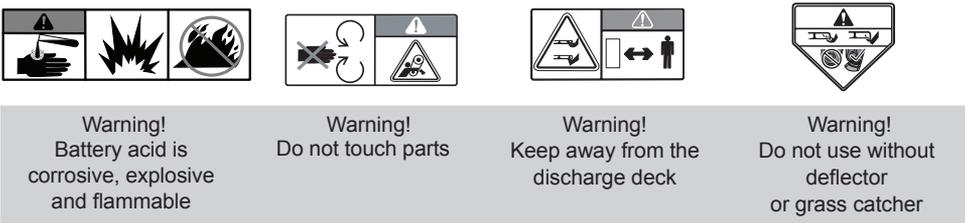
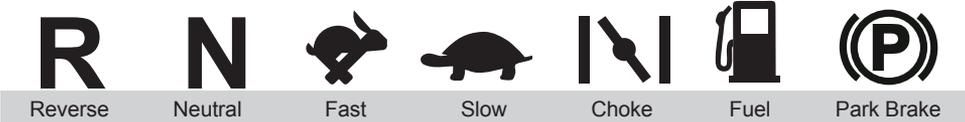
**IMPORTANT INFORMATION** Xxxx xxxxxx  
xxxxx xxxx xxxxxxxxxxxx xxxxxx xxxxxxxxxxxx.

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

**WARNING!** Xxxx xxxxxx xxxxxx xxxx  
xxxxxxxxxx xxxxxx xxxxxxxxxxxx.

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

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



|                                       |                              |  |  |   |
|---------------------------------------|------------------------------|--|--|---|
| Whole body exposure to thrown objects | Severing of fingers and toes | Do not open or remove safety shields with engine running | Careful backing up, watch for other people | Careful going forward, watch for other people |
|---------------------------------------|------------------------------|--|--|---|

# SAFETY

## Safety Instructions

These instructions are for your safety. Read them carefully.

**⚠ WARNING! 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.**

**⚠ WARNING! CHILDREN CAN BE SERIOUSLY INJURED OR KILLED BY THIS EQUIPMENT. Carefully read and follow all the safety instruction that follow.**

**IMPORTANT INFORMATION** The American Academy of Pediatrics recommends that children be a minimum of 16 years of age before operating a riding lawn mower.

## Protecting Children

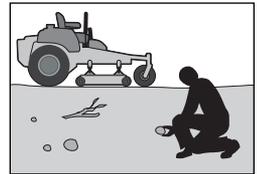
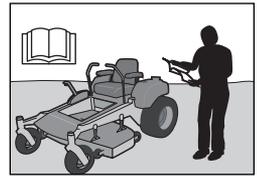
Tragic accidents can occur if the operator is not alert to the presence of children. Children are frequently attracted to the machine and the mowing activity. **Do not** assume that children will stay where you last saw them.

- 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.
- Do not 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 come into the mowing area for another ride and be run over or backed over by the machine.
- Do not let children to operate the machine.
- Use extreme care when going near blind corners, shrubs, trees, or other objects that may block your view of a child.



## General Operation

- Read, understand, and follow all instructions on the machine and in the manual before starting.
- It is recommended that someone be aware that you are mowing and can provide help in case of injury or accident.
- Anyone who operates, maintains, and/or services this machine must first read and understand this Operator Manual. Local laws may regulate the age of the user. The owner is responsible for training the users of this equipment.
- The owner and operator of this equipment can prevent accidents and is responsible for accidents or injuries occurring to themselves, other people and/or property.
- Do not put hands or feet near rotating parts or under the machine. Keep clear of the discharge opening at all times.
- Only let 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.
- Do not mow in reverse unless fully necessary. Always look down and behind before and while backing.
- Do not 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 full grass catcher, discharge guard, or other safety devices in place and working.
- Slow down before turning.
- Always turn off blades, move the steering control lever out to the park brake position, stop engine and remove keys before dismounting.
- Do not carry passengers. The machine is only intended for use by one person.
- Operate the machine only in daylight or good artificial light.



## SAFETY

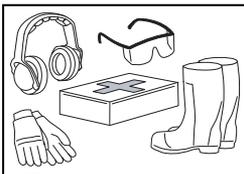
- Disengage blades when not mowing. Shut off engine and wait for all parts to come to a complete stop before cleaning the machine, removing the grass catcher or unclogging the discharge guard.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating 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.
- Wear proper Personal Protective Equipment (PPE) while operating this machine, including (at a minimum) sturdy footwear, eye protection, and hearing protection. Do not mow in shorts and/or footwear with open toes.

**⚠ WARNING!** When using the machine, approved personal protective equipment must 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.

- Data indicates that operators age 60 years and above are involved in a large percentage of riding mower-related injuries. These operators must evaluate if they can safely operate the riding mower sufficiently to protect themselves and others from serious injury.
- Follow the manufacturer's recommendation for wheel weights or counterweights.
- Keep machine free of grass, leaves or other debris buildup which can touch hot exhaust or engine parts and burn. Do not let the mower deck plow leaves or other debris that can cause a buildup to occur. Clean oil or fuel spillage before operating or storing the machine.
- Let machine cool before storage.

### Personal Safety Equipment

- Make sure that first aid equipment is close at hand when using the machine.
- Do not use the machine when barefoot.
- Always wear protective shoes or boots, preferably with steel toe caps.

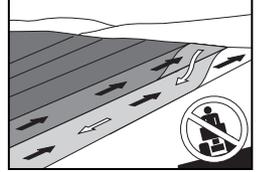


- Always wear approved protective glasses or a full visor when assembling or driving.
- Always wear gloves when handling the blades.
- Do not wear loose clothing that can get caught in moving parts.
- Use ear protectors to avoid damage to hearing.

### 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 slopes requires much more 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; the stability of the machine can be effected.
- 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 the edge caves in.



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

# SAFETY

## Safe Handling of Gasoline

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

**⚠ WARNING!** The engine and the exhaust system become very hot during operation. There is a risk for burns if touched. Let engine and exhaust system to cool before refueling.

- Do not fuel the machine indoors.
- Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
- Use only approved gasoline containers.
- Do not remove gas cap or add fuel with the engine running. Let engine cool before refueling.
- Do not keep 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.
- Do not 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.
- Do not overfill fuel tank. Replace gas cap and tighten securely.
- 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.
- Do not start the engine near spilled fuel.
- Do not use gasoline as a cleaning agent.
- If leaks arise in fuel system, the 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.



## General Maintenance

- Do not use the machine indoors or in spaces lacking proper ventilation. The exhaust fumes contain carbon monoxide, an odorless and poisonous lethal gas.
- Make sure that the equipment is in good condition and that all nuts and bolts, especially those fastening the blade attachments, are properly tightened and torqued.
- Maintain or replace safety and instruction labels as necessary.
- Do not interfere with the intended function of a safety device or reduce the protection provided by a safety device. Check their proper operation regularly. NEVER operate a machine with a safety device that does not function properly.



**CAUTION!** Use protective glasses for maintenance work.

- Check grass catcher components and the discharge guard frequently and replace with manufacturer's recommended parts when necessary.
- Do not change the settings of governors and avoid running the engine with overly high engine speeds. If you run the engine too fast, machine components could be damaged.
- To reduce the risk of fire, keep machine free of grass, leaves or other debris buildup. Clean oil or fuel spills and remove fuel-soaked debris. Let machine cool before storing.
- Stop to inspect the equipment if you run over or into anything. If necessary, make repairs before starting.

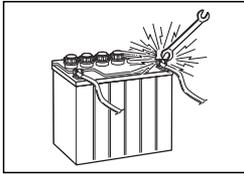


**WARNING!** The engine must not be started when the driver's floor plate or protective plates for the mower deck's drive belt is removed.

- Do not make adjustments or repairs with the engine running.
- The blades are sharp and can cause cuts and gashes. Wrap blades or use protective gloves when handling them.
- Check the park brake's functionality regularly. Adjust and service as necessary.
- Do not work with the starter circuit if there is spilled fuel.

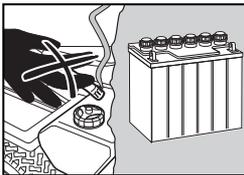
## SAFETY

- Make sure that the fuel filler cap is mounted tightly and no flammable substances are kept in an open vessel.
- 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 will not occur after the grounding cable (normally negative, black) is removed from the battery.



- Disconnect the grounding cable from the battery first and reconnect it last.
- Do not make a bridge short circuit across the starter relay to run the starter.
- 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. Do not perform maintenance on the battery when smoking or near open flames or sparks. The battery can explode and cause serious injury or damage.



- 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 mulch blades must only be used in familiar areas when higher quality mowing is desired.
- Regularly clean the deck and the underside of the deck. Avoid spraying engine and electrical components with water.

### 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 full width ramps for loading machine into a trailer or truck.

- Use an approved trailer to transport the machine. Operate the park brake by securing the steering controls in the outboard position with elastic or ratchet straps. Turn off the fuel supply. Fasten the machine down with approved devices such as bands, chains or straps.
- Both front and rear tie down straps must be used and directed down and out from the machine.
- Do not operate this machine on public roadways.
- Check and abide by local traffic regulations before transporting the machine on roads.
- Do not tow this machine, it may cause damage to the drive system.
- Do not tow trailers, etc. with this mower. They may jackknife or overturn, causing damage to the mower and possible 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.
- When loading or unloading this machine, do not use more than the maximum recommended operation angle of 10 degrees.

**WARNING!** Use extreme caution when loading the machine into a truck or trailer using ramps. There is the possibility of serious injury or death if the machine falls off the ramps.

**IMPORTANT INFORMATION** The park 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.

### Towing

If machine is equipped with a tow hitch, use much more caution when towing. Do not let children or others in or on towed equipment.

Make wide turns to avoid jack-knifing. Travel slowly and leave more 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.

# SAFETY

## Spark Arrestor

This mower is equipped with an internal combustion engine and must not be used on or near unimproved forested, bush covered or grassy lands unless the engine's system is equipped with a spark arrestor meeting applicable local or state laws. Federal laws apply on federal lands.

If a spark arrestor is used, it must be maintained in effective working order by the operator.

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

## Rollover Protection System

The Rollover Protection System (ROPS) increases the basic weight of the unit by 73 lbs.

- 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.
- Read the operator manual before use.
- Securely fasten the seat belt if the unit has a ROPS.
- Be certain the seat belt operates correctly and can be released quickly in the event of an emergency.
- Keep folding ROPS in the raised and locked position and use the seat belt when operating the machine.
- Lower a folding ROPS temporarily only when fully necessary. Do NOT wear the seat belt when the ROPS is folded down.
- Check carefully for overhead clearance (i.e. before driving under trees, electrical wires, through doorways) while loading into a truck or trailer.
- Keep the ROPS in safe operating condition by periodically inspecting for damage and keeping all mounting fasteners tight. Check all bolts, including on the seat belt, for correct torque before each use.
- Check the ROPS structure for damage before each use. If a part of the ROPS is damaged, the entire ROPS must be replaced.
- DO NOT remove the 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 mower smoothly, no jerky turns, starts or stops.
- When mower is stopped, set park brake securely.
- ROPS bar is NOT intended for use in sub zero temperatures.

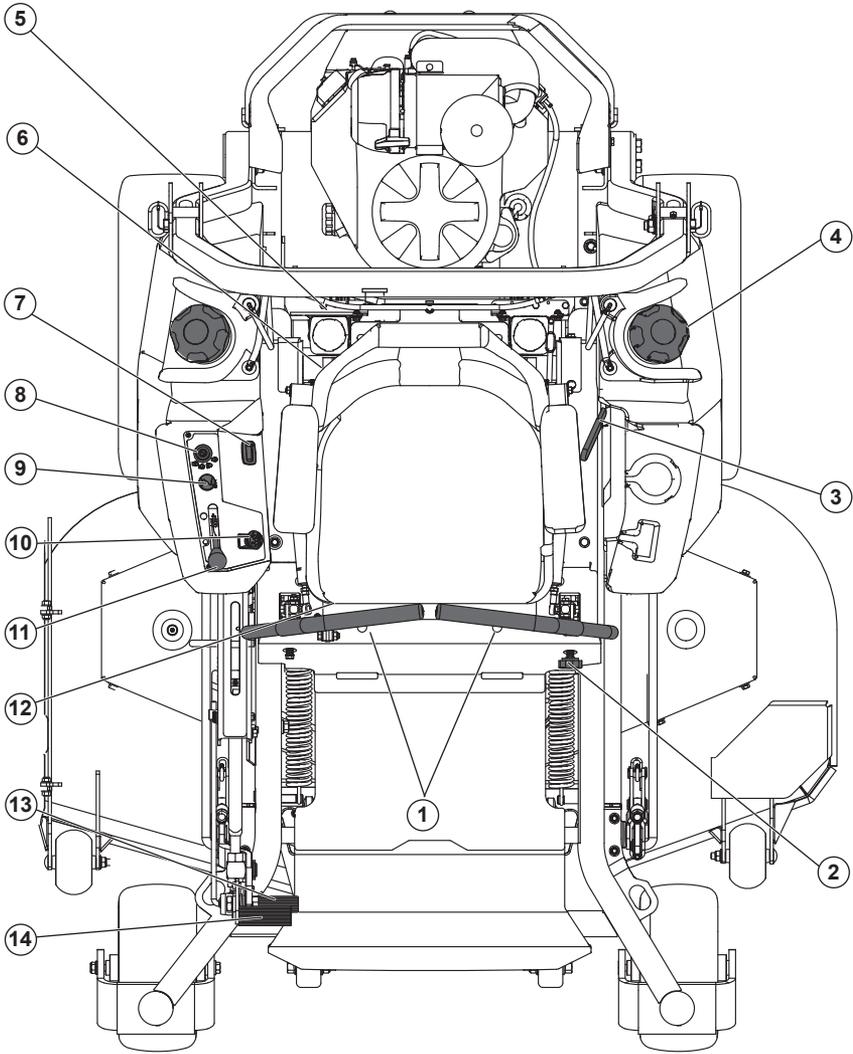


**WARNING!** There is NO roll over protection when the ROPS is folded down.

# CONTROLS

This operator manual describes the Husqvarna Zero Turn Rider. The rider is fitted with a four-stroke overhead valve engine.

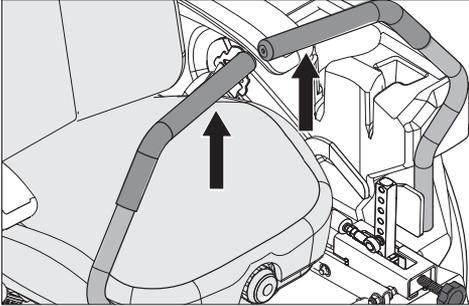
Transmission from the engine is made via belt-driven hydraulic pumps. Using the left and right steering controls, the flow is regulated and thereby the direction and speed.



- |                          |                    |                           |
|--------------------------|--------------------|---------------------------|
| 1. Motion control levers | 6. Fuses           | 11. Throttle control      |
| 2. Tracking knob         | 7. Service meter   | 12. Seat adjustment lever |
| 3. Park brake            | 8. Ignition switch | 13. Deck lift pedal       |
| 4. Fuel tank cap - left  | 9. Choke control   | 14. Deck release pedal    |
| 5. Fuel shut off         | 10. Blade switch   |                           |

# CONTROLS

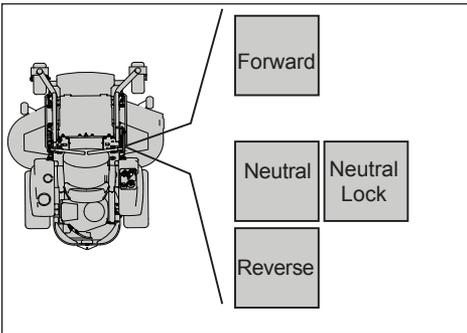
## Steering Control Levers



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. There is a neutral position, which is locked if the steering controls are moved out.

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

By equally moving both controls forward or backward, the machine moves in a straight line forward or backward.



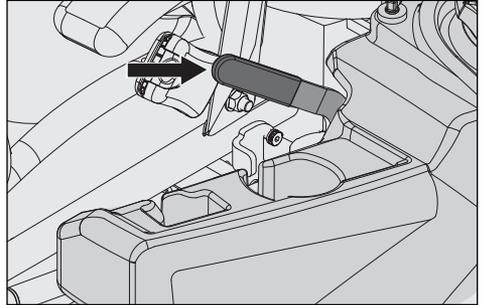
For example, to turn right while moving forward, move the right control towards the neutral position. The rotation of the right wheel is reduced and the machine turns to the right.

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 more care when using this maneuver.

If the steering controls are in uneven positions when standing still or do not fit in the slots for moving the controls out, they can be adjusted.

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

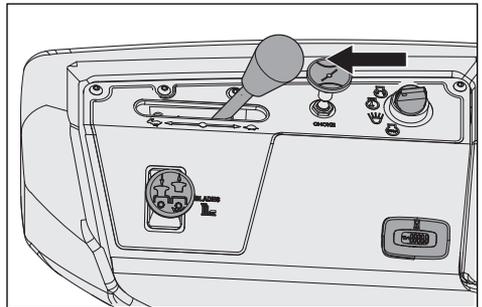
## Park Brake



The park brake is found on the left of the machine. Pull the lever backward to operate the brake and push forward to release it.

**IMPORTANT INFORMATION** The machine must stand still when applying the park brake. Always set the park brake before dismounting. Release the park brake before moving the mower.

## Throttle Control



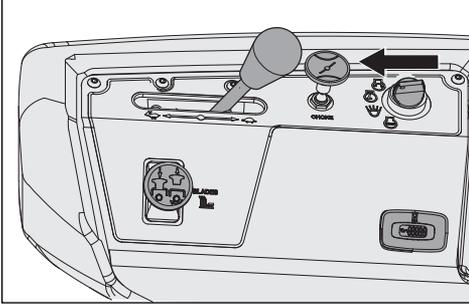
The throttle control regulates the engine speed and the rate of rotation of the blades, assuming the blade switch is pulled out.

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

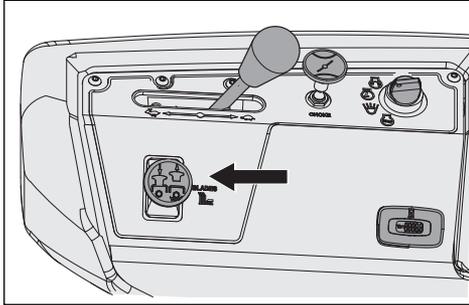
# CONTROLS

## Choke Control



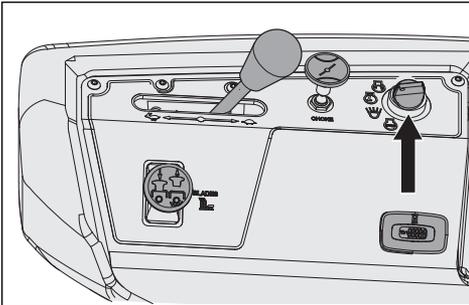
The choke control is used for cold starts to provide the engine with a richer fuel mixture. For cold starts, pull the control up.

## Blade Switch



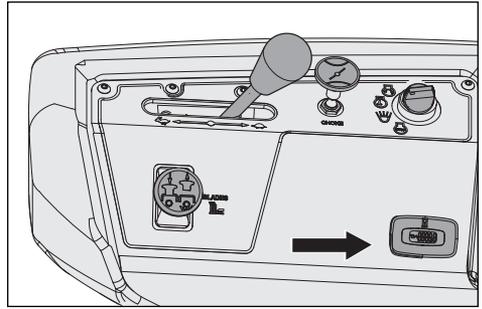
To engage the mower deck, pull the knob out; mower blades are disengaged when the knob is pressed down.

## Ignition Switch



The ignition switch is placed on the control panel and is used to start and stop the engine. On models equipped with headlights, turn the key clockwise to ACCESSORY for headlight use.

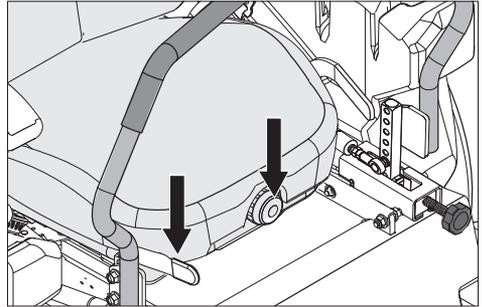
## Service Meter



The service meter displays the total operating time with the blade activated.

After every 50 hours of operation, an oil can icon will appear and stay on for two hours, before an automatic reset occurs. To manually reset the meter, turn the key off and on five times at one second intervals. To service the engine and mower, see the Service Journal of this manual.

## Seat Adjustment Lever



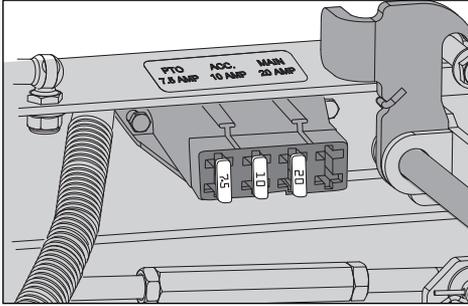
The seat can be adjusted lengthways with the lever located at the right side of the seat (as seen by the driver in the seat). When making adjustments the lever is moved upward.

Adjustments may be made to seat suspension by turning the center knob.

**IMPORTANT INFORMATION** Seat must not be adjusted while unit is in motion.

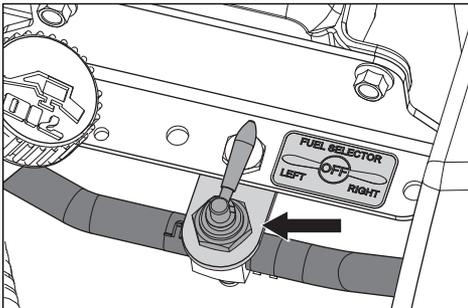
# CONTROLS

## Fuses



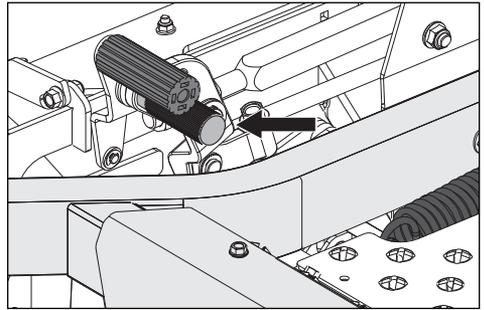
Fuses are located on the right hand side of the machine and are accessed by tilting the seat forward. Fuses are flat pin fuses type as used in automobiles. The 20 A is the primary fuse. The 7.5 A is for the mower deck coupling. The 10 A is for accessories.

## 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 OFF.

## Cutting Height Pedals

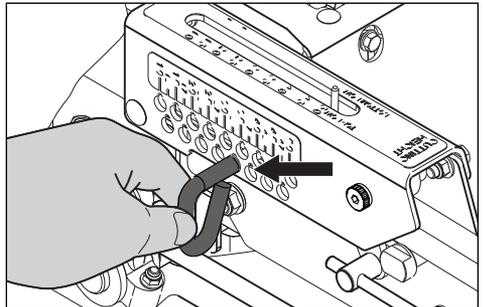


The cutting height pedals release the deck lift and set the desired deck height. Apply pressure to the lift pedal and rotate foot to also apply pressure to the release pedal, unlocking the deck lift.

For transport, push the lift pedal forward until the deck lift latches in the transport (highest) position.

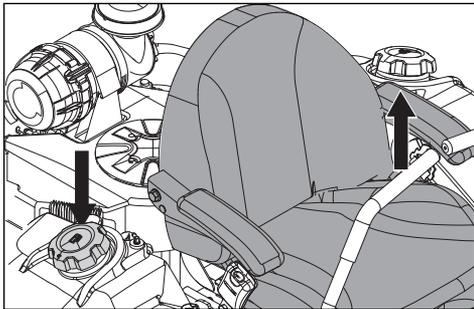
**IMPORTANT INFORMATION** Always raise the deck to the highest position for transport.

To set the deck cutting height, release deck height control by pushing forward on the pedal. Rotate the cutting height pin 180° to remove it and slip the pin into the hole for the desired cutting height. The cutting height can be set from 1" - 5".



## CONTROLS

### Fuel Tank



Read the safety instructions before refueling. The capacity for each tank is 5-1/2 gallons.

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

The engine will run on a minimum of 87-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.

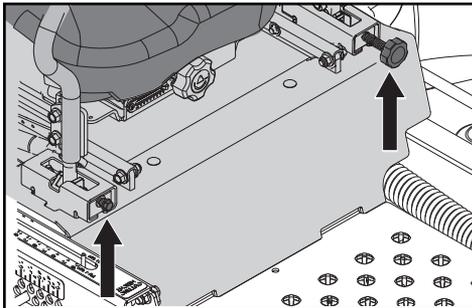
**IMPORTANT INFORMATION** Experience indicates that alcohol blended fuels (called gasohol, ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system must 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** for more information. Do not use engine or carburetor cleaners in the fuel tank or permanent damage may occur.

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

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

**WARNING!** The engine and the exhaust system, become very hot during operation. There is a risk for burns if touched. Let engine and exhaust system to cool before refueling.

### Tracking



If the mower is not tracking straight, check the air pressure in both rear tires. Recommended air pressure for the rear tires is 15 psi (1 bar).

1. Tracking adjustments are made using the tracking bolt and tracking knob. The tracking bolt and tracking knob act as limiting devices for the motion control levers when in the full-forward position.
2. For preliminary tracking adjustment, move unit to an open, unobstructed area such as an empty parking lot or open field.
3. Back the tracking bolt out until flush with nut.
4. Loosen tracking knob out until flush with nut.
5. Test operate unit by driving it at full throttle and the full forward position on both motion control levers. Gradually turn in the tracking bolt on the right hand side until the unit noticeably starts drifting right.
6. Drive forward at full throttle with both motion control levers in the full forward position. Gradually turn in the tracking knob (left side) until unit tracks straight.

## OPERATION

Read the *Safety* section and following pages, if you are unfamiliar with the machine.

### Training

Due to unique steering capabilities, zero turn mowers are far more maneuverable than typical riding mowers.

This section must be reviewed in its entirety prior to attempting to move the mower under its own power. When first operating the mower or until becoming comfortable with controls, use a reduced throttle speed and reduced ground speed. DO NOT move control levers to the furthest forward or reverse positions during initial operation.

First time users must become familiar with the mower's movement on a hard surface, such as concrete or blacktop PRIOR to attempting to operate on turf. Until the operator becomes comfortable with the mower controls and zero turning capability, overly aggressive maneuvers may damage turf.

### Steering

#### To move forward and backward

The direction and speed of the mower's movements are 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.

For first time use, push the mower (see *Moving Machine By Hand* in the *Operation* section) to an open, flat area without other people, vehicles or obstacles nearby. To move the unit under its own power, the operator must sit in the seat and start the engine (see *Before Starting* in the *Operation* section). Adjust the engine speed to idle, disengage the park brake but do not engage the blades at this time. Rotate control levers inward. As long as the control levers have not been moved forward or backwards, the mower will not move.

Slowly move both control levers forward slightly. This will let the mower start moving forward in a straight line. Pull the control levers back to the neutral position and the mower will stop moving.

Pull back slightly on control levers, allowing the mower to move backwards. Push the control levers forward to the neutral position and mower will 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, complete the turn.

### Roll Bar

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.



**WARNING!** Make sure the work area is free from stones and other objects that could be thrown by the rotating blades.

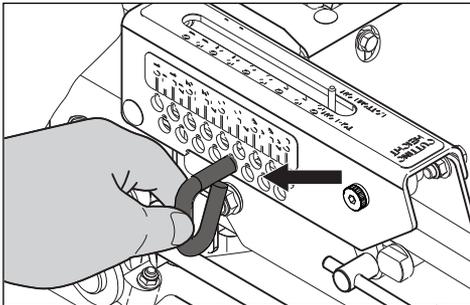
### Before Starting

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

- The blade switch must be pressed downward into the disengaged position.
  - The park brake must be up into the activated position.
  - Both steering controls must be in the locked (outer) neutral position.
1. Read the sections on *Safety* and *Controls* before starting the machine.
  2. Perform the daily maintenance before starting (see *Maintenance Schedule* in the *Maintenance* section).
  3. Check that there is sufficient fuel in the fuel tank.

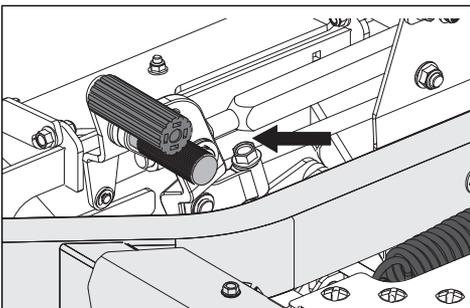
## OPERATION

- Adjust the seat to the desired position.
- Set pin at desired cutting height. (Height selection pin is removed by rotating 180°.) Make sure that the pin is inserted fully through the both sides of the height panels.

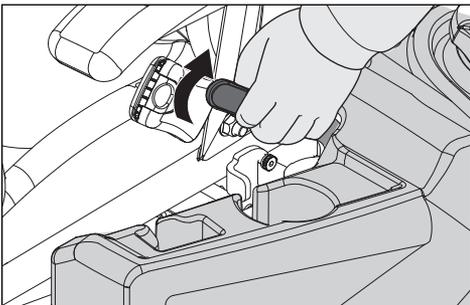


### Starting the Engine

- Sit on the seat.
- Raise the mower deck to the transport position by pushing the lift pedal forward.

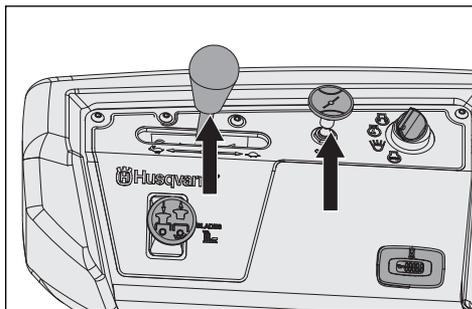


- Engage the park brake, pulling the lever upwards.



- Disengage the mower blades by pressing the blade switch downwards.
- Move the steering controls outward to the locked (outer) neutral position.

- Move throttle control to the middle position. If the engine is cold, pull the choke control up.



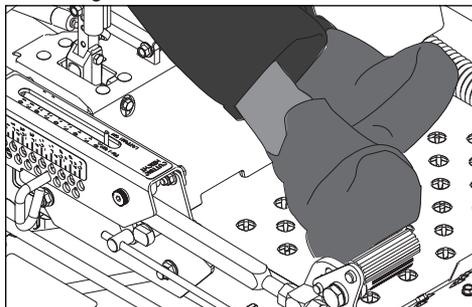
- Set the fuel tank valve to the desired tank.
- Press in and turn the ignition key to the start position.

**IMPORTANT INFORMATION** Do not run the starter for more than five seconds each time. If the engine does not start, wait approximately ten seconds before retrying.

- When the engine starts, immediately release the ignition key back to the run position. Slowly push in the choke control knob, if it was used to start a cold engine.
- Set the engine speed with the throttle. Allow the engine to run at a moderate speed, approximately mid throttle, for a short time before use. **USE FULL THROTTLE WHEN MOWING** (no choke).

### Running

- Disengage the park brake by moving the lever downward.  
*NOTE: The mower is equipped with an operator presence system. When the engine is running, attempt by the operator to leave the seat without first setting the park brake will shut off the engine.*
- Move the steering controls inwards, out of the neutral position (N).
- Release deck height control by pushing the pedal forward to lower the deck to selected setting.



## OPERATION

4. Move throttle control to full throttle.
5. Engage the mower deck by pulling the blade switch up.

**⚠ WARNING!** Make sure that no one is near mower when engaging blade switch.

6. Rotate control levers inward and slowly move both control levers slightly forward to move forward in a straight line.

### Stopping the Engine

1. Move the throttle to the minimum position (tortoise symbol).
2. Move the steering controls outward.
3. Disengage the mower deck by pressing the blade switch down.
4. Raise the mower deck by pressing the foot pedals forward to the transport position.
5. When the machine is standing still, activate the park brake by pulling the lever upward. If the engine has been worked hard, allow it to idle at least sixty seconds to attain a normal operating temperature before stopping. To prevent fouling the spark plugs, avoid idling the engine for longer periods.
6. Turn the ignition key to the stop position and remove the key. Always remove the key when leaving the mower to prevent unauthorized use.

**IMPORTANT INFORMATION** Leaving the ignition switch in a position than OFF will cause the battery to be discharged.

### Operating on Hills

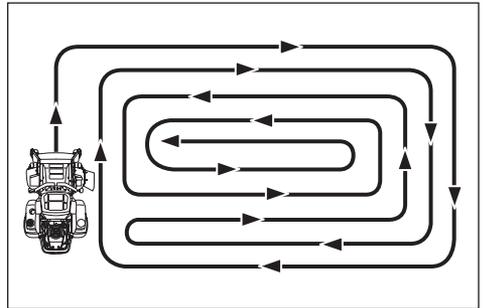
Read the Safety Instructions *Driving on Slopes* in the *Safety* section.

- Use the slowest speed possible before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If stopping is necessary, pull drive levers into the neutral position and push outward. Engage the park brake.
- To restart movement, release the park brake.
- Pull the control levers back to the center of the mower and press forward to regain forward motion.
- Make all turns slowly.

**⚠ WARNING!** Do not drive the rider on terrain that slopes more than 10 degrees. Mow slopes up and down, never side to side. Avoid sudden directional changes.

### 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. Cut the average lawn to 2-1/2" during the cool season and over 3" during the hot months. For healthier and better looking lawns, mow often after moderate growth.
- For best cutting performance, mow grass over 6" in height 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.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished.



- Avoid mowing wet lawns. The mowing result is poorer because the wheels sink into the soft lawn, clumps build, and grass clippings fasten under the cowlings.
- 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.

## OPERATION

### Moving Machine By Hand

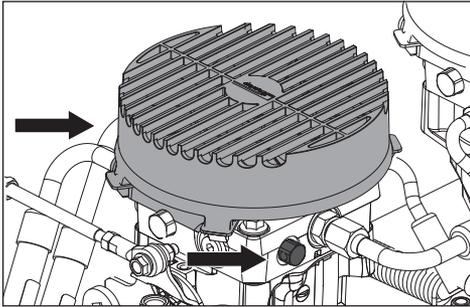
#### Bypass Valves

Bypass valves are used to release the system so the machine may be moved by hand when not running.

#### Hydro Pumps

Pump release valves are located at the front and rear of the pump. Tilt the seat forward and remove the fan cover to gain access to the pump.

Use a 5/8" wrench or socket and ratchet. Turn the pump release valve one half turn. Reverse the procedure to reset the pump.



Load the machine into truck or trailer by driving up ramps in low gear. DO NOT LIFT! The machine is not intended to be lifted by hand.

**⚠ WARNING!** Do not make adjustments unless:

- the engine is stopped,
- the ignition key is removed,
- the park brake is activated

**⚠ WARNING!** Use extreme caution when loading the machine into a truck or trailer using ramps. There is the possibility of serious injury or death if the machine falls off the ramps.

# MAINTENANCE

## Maintenance Schedule

Following is a list of maintenance procedures that must be performed on the machine. For those points not described in this manual, visit an authorized service workshop. An annual service

carried out by an authorized service workshop is recommended to maintain your machine in the best possible condition and to ensure safe operation.

Read **General Maintenance** in the *Safety* section.

| MAINTENANCE  | DAILY  |       | AT LEAST ONCE EACH YEAR | MAINTENANCE INTERVAL IN HOURS |     |     |
|--|--------|-------|-------------------------|-------------------------------|-----|-----|
|  | BEFORE | AFTER |                         | 50                            | 250 | 500 |
| <b>CHECK</b>   |        |       |                         |                               |     |     |
| Park brake for adjustment                            | ●      |       | ●                       | ●                             | ●   | ●   |
| Engine's oil level (every refueling)                 | ■      |       |                         |                               |     |     |
| Safety system  | ●      |       |                         |                               |     |     |
| For fuel and oil leakages                            | ◆      |       |                         |                               |     |     |
| For damage   |        | ◆     |                         | ◆                             | ◆   | ◆   |
| For loose hardware (screws, nuts)                    |        | ●     |                         |                               |     |     |
| For mower deck damage                                |        | ●     |                         |                               |     |     |
| Tire pressures                                       |        | ●     |                         | ●                             | ●   | ●   |
| Battery connections                                  |        |       | ●                       | ●                             | ●   | ●   |
| <b>CLEAN</b>   |        |       |                         |                               |     |     |
| Engine's cooling air intake                          |        | ■     |                         |                               |     |     |
| Under the mower deck                                 |        | ●     |                         | ●                             | ●   | ●   |
| Around the engine                                    |        | ◆     |                         | ◆                             | ◆   | ◆   |
| Around belts, belt pulleys                           |        | ◆     |                         | ◆                             | ◆   | ◆   |
| Engine's cooling air intake <sup>2)</sup>            |        |       | ■                       | ■                             | ■   | ■   |
| Air cleaner foam pre-filter <sup>2)</sup>            |        |       | ■                       |                               | ■   |     |
| Air cleaner paper filter cartridge <sup>2)</sup>     |        |       | ■                       |                               | ■   |     |
| <b>ALSO</b>  |        |       |                         |                               |     |     |
| Inspect muffler/spark arrestor                       |        |       | ◆                       | ◆                             | ◆   | ◆   |
| Start the engine & blades, listen for unusual sounds |        | ◆     |                         |                               |     |     |
| Sharpen <sup>3)</sup> / Replace mower blades         |        |       | ●                       | ●                             | ●   | ●   |

● = Described in this manual

◆ = Not described in this manual

■ = Refer to the engine manufacturer's manual

<sup>1)</sup> First change after 8-10 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.



**WARNING!** Before performing service or adjustment:

- Engage the park 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.

# MAINTENANCE

| MAINTENANCE   | DAILY  |       | AT<br>LEAST<br>ONCE<br>EACH<br>YEAR | MAINTENANCE<br>INTERVAL<br>IN HOURS |     |     |
|---|--------|-------|-------------------------------------|-------------------------------------|-----|-----|
|   | BEFORE | AFTER |                                     | 50                                  | 250 | 500 |
| <b>CHECK</b>  |        |       |                                     |                                     |     |     |
| Throttle and choke cables for adjustment                      |        |       |                                     |                                     | ■   |     |
| Mower deck for adjustment                                     |        |       | ●                                   |                                     |     | ●   |
| Condition of belts, belt pulleys                              |        |       | ●                                   |                                     | ●   |     |
| Caster wheels (every 200 hours)                               |        |       | ●                                   |                                     | ●   |     |
| Hydraulic oil level   |        | ●     |                                     |                                     |     |     |
| Engine valve clearance <sup>3)</sup>                          |        |       | ◆                                   |                                     |     | ◆   |
| <b>CHANGE</b>   |        |       |                                     |                                     |     |     |
| Spark plugs   |        |       | ■                                   |                                     | ■   |     |
| Engine oil <sup>1)</sup>                                      |        |       | ■                                   | ■                                   |     |     |
| Engine oil filter   |        |       | ■                                   |                                     | ■   |     |
| Fuel filter   |        |       | ■                                   |                                     | ■   |     |
| Paper air filter <sup>2)</sup>                                |        |       | ■                                   |                                     | ■   |     |
| Air cleaner foam pre-filter <sup>2)</sup>                     |        |       | ■                                   |                                     |     |     |
| Air cleaner paper filter cartridge <sup>2)</sup>              |        |       | ■                                   |                                     | ■   |     |
| Hydraulic oil (every 500 hours)                               |        |       | ●                                   |                                     |     | ●   |
| Hydraulic oil filter (every 500 hours)                        |        |       | ●                                   |                                     |     | ●   |
| <b>ALSO</b>   |        |       |                                     |                                     |     |     |
| Dismantle and inspect starter <sup>3)</sup> (every 500 hours) |        |       |                                     |                                     |     | ◆   |
| Perform the 500-hour service <sup>3)</sup>                    |        |       | ◆                                   |                                     |     | ◆   |

- = Described in this manual
  - ◆ = Not described in this manual
  - = Refer to the engine manufacturer's manual
- 1) First change after 8-10 hours. When operating with a heavy load or at high ambient temperatures, replace every 50 hours.
  - 2) In dusty conditions, cleaning and replacement are required more often.
  - 3) Performed by authorized service workshop.

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

**⚠ WARNING!** Do not short battery terminals by allowing a wrench or other objects 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.

**IMPORTANT INFORMATION** The 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.



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

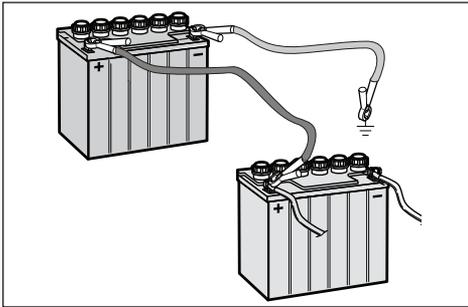
# MAINTENANCE

## Battery

If the battery is too weak to start the engine, it must be recharged.

### Jumper Cable Use

1. Connect each end of the RED cable to the POSITIVE (+) terminal on each battery, taking care not to short against chassis.
2. Connect one end of the BLACK cable to the NEGATIVE (-) terminal of the fully charged battery.
3. 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

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

The 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.

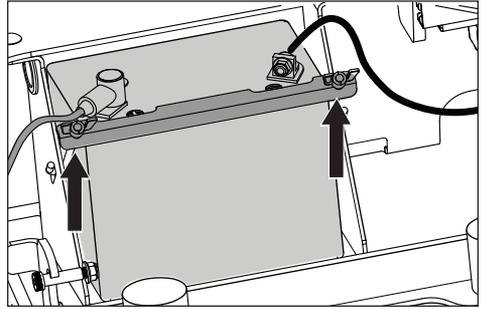
- Keep battery and terminals clean.
- Keep battery bolts tight.
- See chart for charging times.

| STD<br>BATTERY | STATE<br>OF<br>CHARGE | APPROXIMATE CHARGING TIME*<br>TO FULL CHARGE AT 80°F |          |          |          |
|----------------|-----------------------|--|----------|----------|----------|
|                |                       | 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

## Battery Removal

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



1. Lift the seat and rotate fully forward until supported by the seat rod.
2. Loosen the two wing nuts attached to the side J bolts just enough that the battery mount bracket slides down off the battery.
3. Using two 1/2" wrenches disconnect BLACK battery cable then RED battery cable.
4. Carefully remove the battery from the mower.

## Cleaning

1. Rinse the battery with plain water and dry.
2. Clean terminals and battery cable ends with a wire brush until shiny.
3. Coat terminals with grease or petroleum jelly.

## Replacing

1. Install the new battery with terminals in the same position as the old battery.
2. Connect RED battery cable first to positive (+) battery terminal.
3. Connect BLACK grounding cable to negative (-) battery terminal.
4. Slide mount bracket back up over battery and retighten wing nuts.

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

Always use two wrenches for the terminal screws.

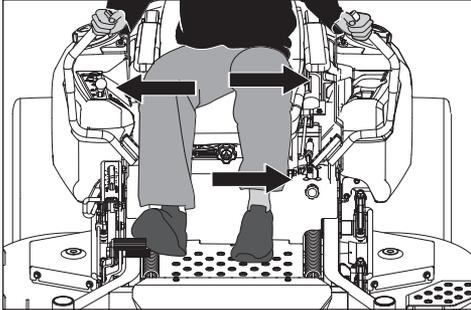
## MAINTENANCE

### Safety System

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

The engine can only be started when:

- the mower deck is disengaged.
- the steering controls are in the outer, locked neutral position.
- the park 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.

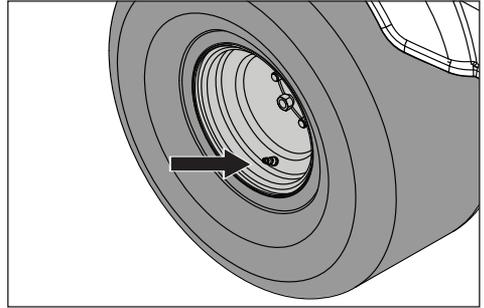
Make sure the engine stops when the park brake is not engaged and the operator leaves the seated position.

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

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

### Tire Pressures

All tires must be at 15 psi / 103 kPa / 1 bar.



**IMPORTANT INFORMATION** DO NOT add a 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.

### V-belts

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

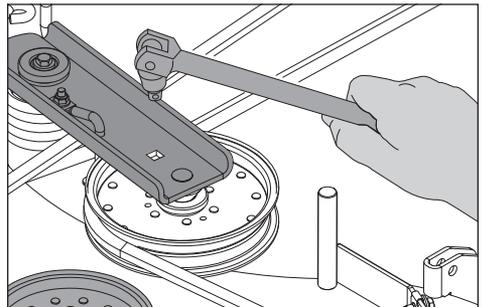
*NOTE: The belt will show some small cracks in normal operation.*

### Deck Belt

#### Deck Belt Removal

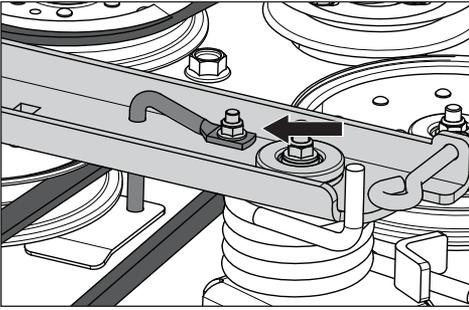
Park the mower on a level surface. Engage the park brake. Lower the deck into the lowest cutting position.

1. Remove foot plate and belt shields.
2. Remove dirt or grass that may have accumulated around the cutter housings and entire deck surface.
3. With a 1/2" breaker bar and using the square opening in the idler arm, shift the arm counter clockwise to relieve the tension on the belt.



4. Carefully lift the belt over the top of the cutter housing pulleys.
5. Remove the belt guide hardware with a 1/2" wrench and set belt guide aside.

## MAINTENANCE

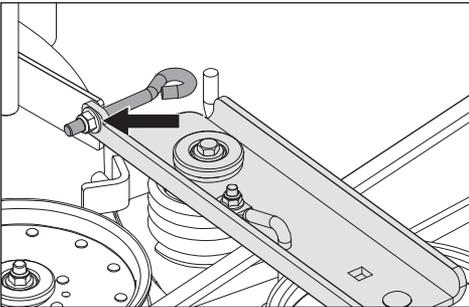


6. Remove the belt from around the electric clutch on the engine shaft.

### Deck Belt Installation

*NOTE: For ease in installing the deck belt, refer to the routing decal on the cutting deck.*

1. Place the belt around all the pulleys except the center spindle pulley.
2. With a 1/2" breaker bar, shift the idler arm counter clockwise. When there is enough slack, slip the belt onto the center spindle pulley.
3. Reinstall the belt guide removed in Step 5 above.
4. Check belt routing to make sure it matches the routing decal and that the belt does not have twists.
5. Adjust belt tension by turning the eyebolt until there is approximately 7/8" -1" of threads showing outside the nut.

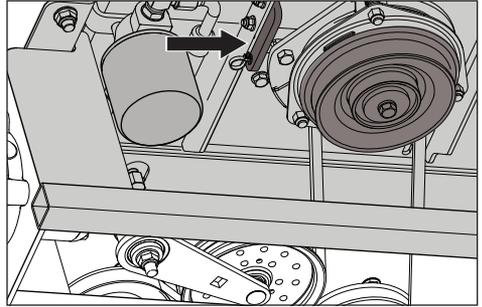


6. Belt tension must be set to 60-70 lbs.
7. Replace belt shields on both mandrel housings and secure with fasteners.

### Pump Belt

The belts are not adjustable and need to be replaced if they begin to slip from wear. Park the mower on a level surface. Engage the park brake.

1. Remove the deck belt.
2. Remove clutch stop to access the belt.
3. Disconnect clutch wire.



4. With a 1/2" breaker bar and using the square opening in the idler arm, shift the arm to create slack in the belt.
5. Remove belt from the engine and pump pulleys.

### Reinstallation

1. Wrap the belt around the engine pulley and then around the left pump pulley.
2. Route the belt around the inside of the idler pulley.
3. With a 1/2" breaker bar and using the square opening in the idler arm, shift the arm to create slack in the belt.
4. While holding the idler back with the breaker bar, wrap the belt around the right pump pulley.
5. Replace and secure clutch stop. Reinstall the deck belt.

# MAINTENANCE

## Adjusting the Mower Deck

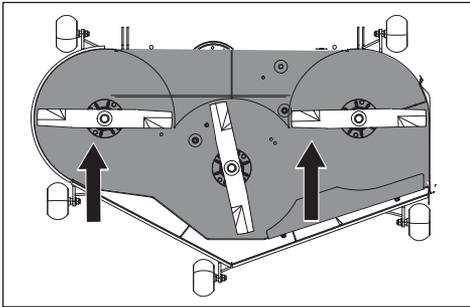
### Leveling Deck

Adjust the deck while the mower is on a level surface. Make sure the tires are inflated to the correct pressure. See **Tire Pressures** in *Maintenance* section. If tires are under or over inflated, the deck cannot be properly adjusted. Faulty mower deck adjustments will cause an uneven mowing result.

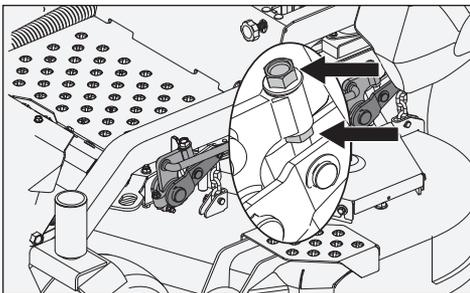
Four bolts control the height and pitch of the mower deck. Adjust the deck slightly higher in the rear.

**NOTE:** To insure precision in the leveling procedure, mower deck drive belt must be installed prior to leveling the deck.

1. Wear heavy gloves. Turn each outer blade tip to align with the deck side-to-side.



2. Measure from the floor surface up to the bottom of the blade tip on the discharge side of the mower deck. Record this measurement. Move to the opposite side; check that measurement is the same. If adjustment is required, loosen the locknut and adjust the bolt up until both side to side measurements are equal. Retain measurement.
3. Turn both outer blades to align with the deck front to rear. Reposition the rear mounting bolts up or down until the rear blade tips are positioned 1/8" to 3/8" higher in the rear than the front blade tips.



4. Confirm measurements once again. The blade tip height must be equal side to side. In the rear, the blade tips must be 1/8" to 3/8" higher than the front measurement. In the front, blade tips must be equal from side to side.

**NOTE:** This will place the mower deck in a standard measurement position. Depending on the type of grass being mowed or environmental conditions, more adjustments may be required to get the desired cut.

## Cutting Blades

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

Replace blades that have been bent or cracked when hitting obstacles.

Let the service workshop decide whether a blade with large nicks can be repaired/ground or must be replaced. Balance the blades after sharpening.

Check the blade mounts.

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

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



## Blade Replacement

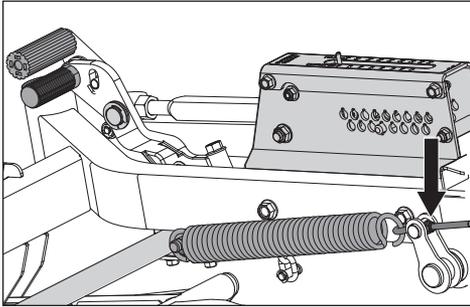
1. Remove blade bolt by turning it counter clockwise.
2. Install new or resharpened blade with stamped GRASS SIDE facing towards ground/grass (down) or THIS SIDE UP facing deck and cutter housing.
3. Install and tighten blade bolt securely.
4. Torque blade bolt to 90 ft-lbs (122 Nm).

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

## MAINTENANCE

### Deck Lift Spring

When mowing 2" or lower, it may be necessary to adjust the deck lift springs. Access the springs by tilting the seat forward. Loosen the nut to adjust the spring tension.



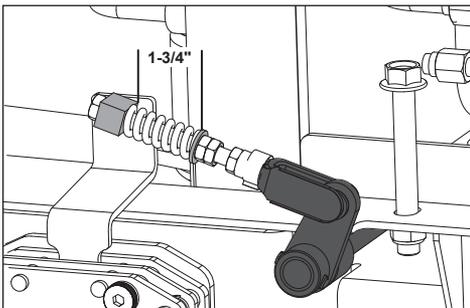
### Park Brake

Visually check that no damage is found on the lever, links, or switch belonging to the park brake. Perform a standstill test and check that there is sufficient braking.

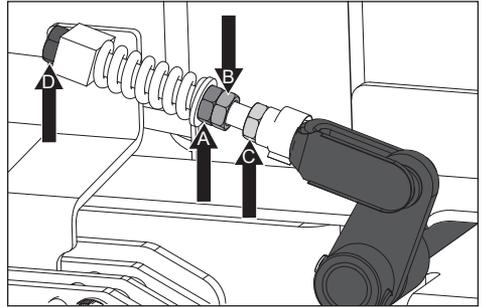
**⚠ WARNING!** Faulty adjustment will result in reduced braking and can cause an accident.

### Park Brake Adjustments

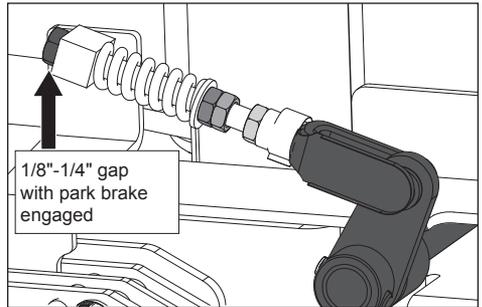
1. Using a jack stand, raise the rear of the mower up off the ground. Make sure the machine is securely supported.
2. Remove the rear tire assemblies.
3. Release the park brake.
4. Measure the distance from the swivel to the washer. The measurement must be 1-3/4" on both the right and left side brake linkage assemblies.



5. If adjustments are needed, loosen B jam nut and turn A jam nut until the correct distance is achieved. Retighten B jam nuts against A jam nuts.



6. Engage the park brake. Measure the distance between the D brake bolt and the brake swivel. The distance must be 1/8"-1/4".
7. If adjustments are needed, loosen C jam nut. Turn the brake bolt until the distance is correct. Retighten C jam nuts.

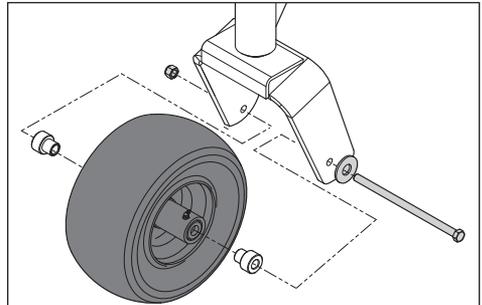


### Caster Wheels

Check every 200 hours. Check that wheels rotate freely.

To replace, remove nut and caster bolt. Pull the wheel out of the fork. Install in reverse order. Tighten caster bolt. Torque to 45 ft-lbs (61 Nm), then back nut off 1/2 turn.

**NOTE:** Tire must rotate freely but axle spacers must not. If wheels do not rotate freely take the unit to the dealer for service.



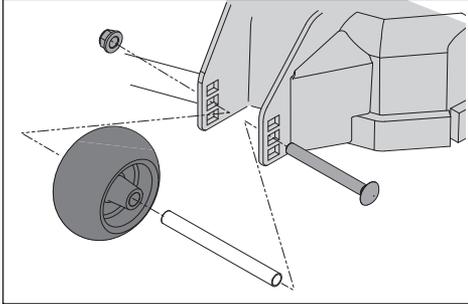
## MAINTENANCE

### Anti-scalp Rollers

Anti-scalp rollers keep the deck in the proper position to help prevent scalping in most terrain conditions. Do not adjust the rollers to support the deck.

**IMPORTANT INFORMATION** Adjust anti-scalp rollers with the mower on a flat level surface.

To avoid deck damage, the anti-scalp rollers must not be adjusted to support the deck.



Anti-scalp rollers can be set in three positions.

- Upper position 1-1/2" to 2-1/2" grass
- Middle position 2-1/2" to 4" grass
- Lower position 4" to 5" grass

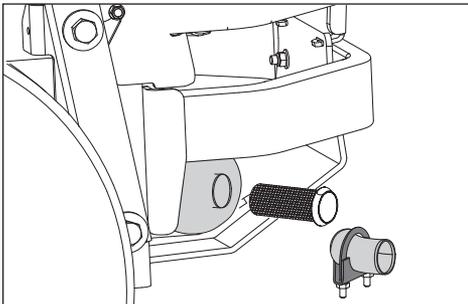
The rollers must be approximately 1/4" from ground. Do not adjust the rollers to support the deck.

### Spark Arrestor

Clean the interior screen regularly, depending on usage and conditions.

To clean, remove the clamp securing the tail pipe. Remove the tail pipe and slide the spark arrestor screen out of the muffler. Clean carbon from the screen with a soft brush or cloth.

Replace screen and reattach the tail pipe, orienting the tail pipe either horizontally or upwards, away from grassy surfaces.



### 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.



**CAUTION!** Always wear eye protection when cleaning and washing.

### Hardware

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

# LUBRICATION

## Lubrication Schedule

| 12/12 | 1/52 | 1/365 |   | 50h            | 250h | 500h | 750h |  |
|-------|------|-------|---|----------------|------|------|------|--|
|       |      |       |   |                | (2x) | (2x) | (2x) |  |
|       |      |       |   |                | (2x) | (2x) | (2x) |  |
|       |      |       |   |                |      |      |      |  |
|       |      |       |   |                | (2x) | (2x) | (2x) |  |
|       |      | 5     |   | 5 <sup>▲</sup> |      |      |      |  |
|       |      |       |   | 6              |      |      |      |  |
|       |      |       | * |                |      |      |      |  |

\* Change hydraulic drive filters.

▲ Change engine oil every 50 hours.

|       |            |                           |  |
|-------|------------|---------------------------|--|
| 12/12 | Every year | Lubricate with grease gun |  |
| 1/52  | Every Week | Filter change             |  |
| 1/365 | Every day  | Oil change                |  |
|       |            | Level check               |  |

### 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 high grade molybdenum disulphide grease.

For daily use, the machine must 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. If this happens, 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.

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

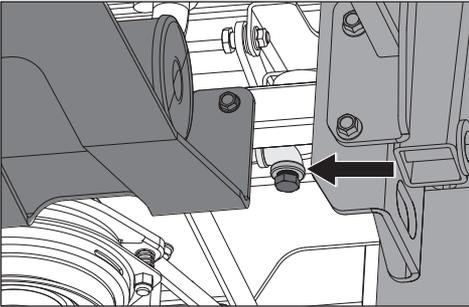
# LUBRICATION

## Engine Oil

*NOTE: Change the engine oil when the engine is warm. Refer to the engine owner's manual for the correct replacement oil and filter change recommendations.*

**⚠ WARNING!** The engine drain plug is located close to the muffler. To prevent burns, the engine should be shut off and allowed to cool slightly so the engine is still warm but the surrounding surfaces and oil are not.

1. Park on a level surface. Apply parking brake.
2. Clean the dirt and debris from the area around the oil fill cap.
3. Remove the cap/dipstick.
4. Locate the drain hose at the right rear of the engine below the muffler. Place an adequately sized container under the end of the drain hose and remove the oil drain plug.



5. Allow the oil to fully drain from the engine.
6. Replace the drain hose plug and tighten securely.
7. Fill the engine with new oil to the bottom of the fill tube threads. Check the level with the dipstick.
8. Replace the oil fill cap securely when the oil level is FULL.
9. Refer to the Service Journal for oil checking and changing intervals.

## Wheel and Deck Zerk

Use only good quality bearing grease.

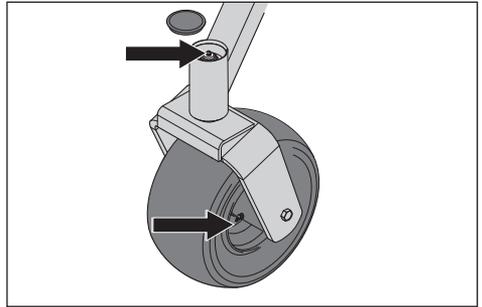
Grease from well-known brand names (petrochemical companies, etc.) usually maintains a good quality.

### Front Wheel Mount

Remove dust cap to expose zerk. Lubricate with a grease gun until the grease is forced out around the top washer.

### Front Wheel Bearings

Lubricate 3-4 strokes with a grease gun on each set of wheel bearings.

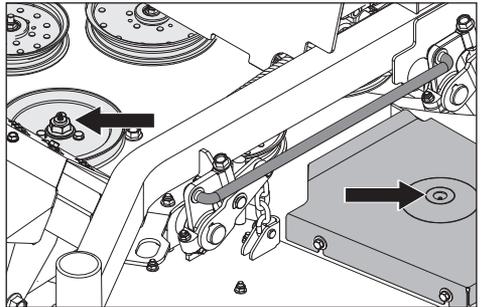


## Deck Spindles

Lower the cutting deck completely.

If a grease gun without rubber hose is used, the foot plate must be removed to access the center spindle.

Lubricate with a grease gun, 2-3 strokes per spindle.



Drain old oil filters of all free-flowing oil prior to disposal. Place used oil in appropriate containers and dispose of it in accordance with laws in your area.

# LUBRICATION

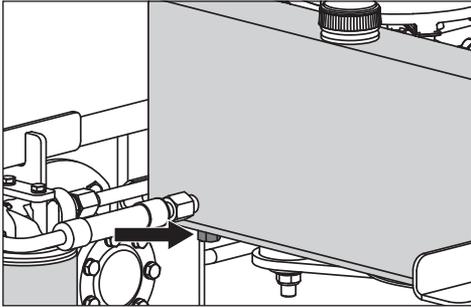
## Transaxle Fluid Change

### Fluid and Filter Change

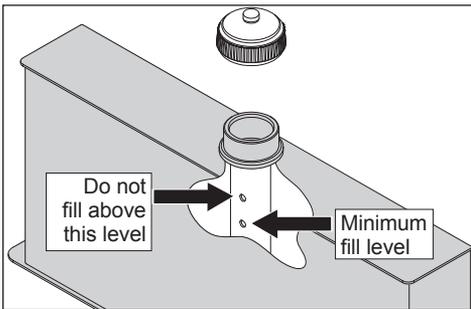
The hydraulic drive is designed with an external filter for ease of maintenance. To ensure constant fluid quality levels and longer life, an oil filter change interval of every 500 hours is recommended.

The following procedure can be performed with the pump installed in the vehicle, and the vehicle on level ground.

1. Lock the vehicle park brake.
2. Place an oil drain pan with a two gallon capacity beneath the oil reservoir. Remove the drain port and drain oil. Remove the oil filter from the pump.



3. After the oil has drained, wipe the filter base surface off and apply a film of new oil to the gasket of the new replacement filter.
4. Fill the new oil filter with oil and install the filter by hand. Turn 3/4 to one full turn after the filter gasket contacts the filter base surface.
5. Fill reservoir with **synthetic 15W 50** oil to the level of the lower hole in the fill tube. DO NOT fill above the level of the upper hole. After purging, check levels and add oil if necessary.



6. Reinstall the reservoir cap by hand. Do not overtighten.

## Transmission Purging

Due to the effects air has on efficiency in hydrostatic drive applications, it is critical to purge the system.

Resulting symptoms in hydrostatic systems may be:

- Noisy operation.
- Lack of power or drive after short term operation.
- High operation temperature and excessive expansion of oil.
- Shortened component life.

Purge procedures must be implemented if the hydrostatic system has been opened for maintenance or when more oil has been added to the system.

Before starting, make sure the oil tank is at the proper oil level. If not, fill to the specifications outlined above.

Perform the procedure first with the vehicle drive wheels off the ground, then repeated under normal operating conditions.

See **Moving Machine By Hand** in the *Operation* section for bypass linkage adjustments.

1. Disengage the brake if activated.
2. With the bypass linkage open and the engine running at fast idle, slowly move the directional control in both forward and reverse directions (5 or 6 times). As air is purged from the unit, the oil level will drop.
3. With the bypass linkage closed and the engine running, slowly move the directional control in both forward and reverse directions (5 to 6 times). Check the oil level and add oil as required after stopping the engine.
4. It may be necessary to repeat Steps 2 and 3 until all the air is completely purged from the system. When the hydraulic drive operates at normal noise levels and moves smoothly forward and reverse at normal speeds, the hydraulic drive is considered purged.
5. After the vehicle has been used two times, the oil level must be checked while the oil is cold and adjusted accordingly.

**⚠ 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.

# TROUBLESHOOTING

## Problem / Cause

### Engine will not start

- Blade switch is engaged
- Steering controls are not locked in the neutral position
- Park brake is not activated
- Dead battery
- Contamination in the carburetor or fuel line
- Fuel supply shutoff valve is closed or in the wrong position
- Clogged fuel filter or fuel line
- Ignition system faulty

### Starter does not turn the engine over

- Dead battery
- Battery terminal cable contacts are defective
- Blown fuse
- Fault in the starter safety circuit. See **Safety System** in the *Maintenance* Section

### Engine runs rough

- Faulty carburetor
- Clogged fuel filter or jet
- Choke is activated with a warm engine
- Clogged ventilation valve on the fuel cap
- Fuel tank nearly empty
- Fouled spark plugs
- Rich fuel mixture or fuel-air mixture.
- Wrong fuel type
- Water in fuel
- Clogged air filter

### Engine seems weak

- Clogged air filter
- Fouled spark plugs
- Carburetor incorrectly adjusted
- Air trapped in hydraulic system

### Machine vibrates

- Blades are loose
- Blades are incorrectly balanced
- Engine is loose

### Engine overheats

- Clogged air intake or cooling fins
- Engine overloaded
- Poor ventilation around engine
- Defective engine speed regulator
- Too little or no oil in the engine
- Contamination in the fuel line
- Fouled spark plugs

### Battery not charging

- Battery terminal cable contacts are defective
- Charging lead is disconnected
- Fault in engine charging system

### Mower moves slowly, unevenly, or not at all

- Park brake activated
- Bypass valve on pump is open
- Transmission drive belt is slack or off
- Air trapped in hydraulic system

### Mower deck not engaging

- Drive belt for the mower deck is loose
- Electromagnetic coupling contact is loose
- Blade switch is faulty or loose from cable contact
- Blown fuse

### Transaxle leaks oil

- Damaged seals, housing, or gaskets
- Air trapped in hydraulic system

### Uneven mowing results

- Unequal air pressures in tires
- Bent blades
- Suspension for the mower deck is uneven
- Blades are dull
- Driving speed too high
- Grass is too long
- Grass has collected under the mower deck

## STORAGE

### Winter Storage

The machine must be readied for storage at the end of the mowing season, or if it will not be in use for more 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 permitted 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 a stabilizer has been added.



**WARNING!** Do not 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 dryer, 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 store far away from open flame or sources of ignition. Do not use gasoline for cleaning. Use a degreaser and warm water.

To ready the machine for storage:

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 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 let it 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.

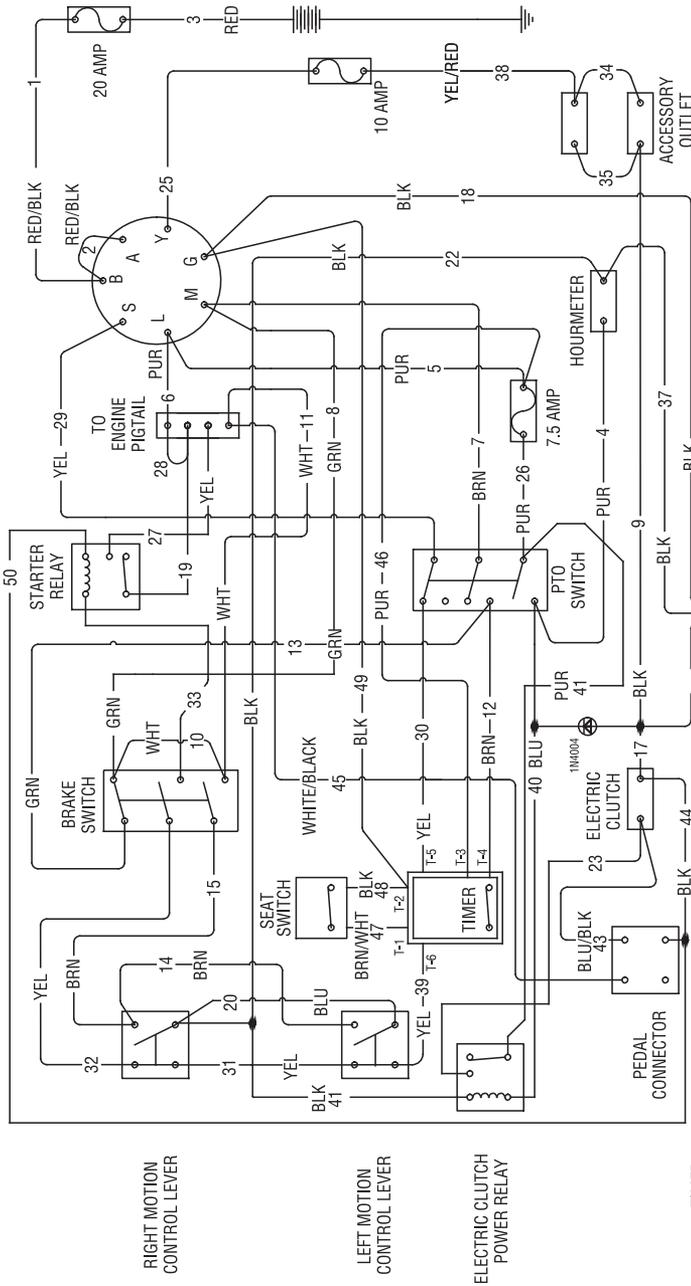
### Service

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 the machine performs its best the following season.

# SCHEMATIC



RIGHT MOTION CONTROL LEVER

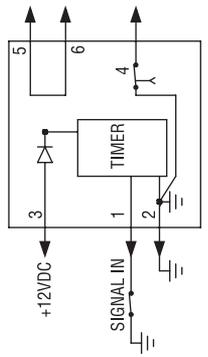
LEFT MOTION CONTROL LEVER

ELECTRIC CLUTCH POWER RELAY

TIMER

- NOTES:
1. SEAT UNOCCUPIED
  2. BRAKE SWITCH IN OFF POSITION
  3. MOTION CONTROL LEVERS OUT
  4. PTO IN OFF POSITION

- CONNECTOR WIRE/COLOR LOCATION:
1. SEAT INPUT - BROWN/WHITE
  2. GROUND - BLACK
  3. IGNITION POWER - VIOLET
  4. MAGNETO - BROWN
  5. START INPUT - YELLOW
  6. START OUTPUT - YELLOW



## TECHNICAL DATA

| ENGINE                     |  |
|----------------------------|--|
| Manufacturer               | Kawasaki   |
| Type                       | FX921V   |
| Power                      | 23.1 kW @ 3600 rpm <sup>1)</sup>                       |
| Lubrication                | Pressure with oil filter                               |
| Fuel                       | Min 87 octane unleaded (Max ethanol 10%, Max MTBE 15%) |
| Fuel tank capacity         | 11 gallons   |
| Cooling                    | Air cooled   |
| Air filter                 | Heavy duty canister                                    |
| Alternator                 | 12v 15 amp @ 3600 rpm                                  |
| Starter                    | Electric   |
| TRANSMISSION               |  |
| Transmission               | Dual pump and wheel motor                              |
| Steering control           | Dual levers, foam gripped                              |
| Speed forward              | 0-12 mph   |
| Speed reverse              | 0-6 mph  |
| Brakes                     | Disc   |
| Front caster tires         | 13 x 6.5-6 Flat Free                                   |
| Rear tires, turf pneumatic | 24 x 12-12   |
| Tire pressure              | 15 PSI / 103 kPa / 1 bar                               |
| FRAME                      |  |
| Seat                       | Commercial Premium EVC                                 |
| Hinged Arm Rests           | Yes  |
| Service Meter              | Digital  |
| Blade Engagement           | Ogura GT 3.5 Clutch                                    |
| Deck Construction          | 7 gauge fabricated                                     |
| DIMENSIONS                 |  |
| Weight                     | 635 kg   |
| Base Machine Length        | 218 cm   |
| Base Machine Height        | 121 cm   |
| Base Machine Width         | 145 cm   |
| Overall Height, ROPS up    | 183 cm   |

<sup>1)</sup> The power rating as declared by the engine manufacturer is the average gross power output at the specified RPM of a typical production engine for the engine model measured using SAE Standards for engine gross power. Refer to the engine manufacturer engine specifications.

# TECHNICAL DATA

## Torque Specifications

|                        |           |                          |          |
|------------------------|-----------|--------------------------|----------|
| Engine crankshaft bolt | 50 ft/lb  | Standard 1/4" fasteners  | 9 ft/lb  |
| Deck pulley bolts      | 150 ft/lb | Standard 5/16" fasteners | 18 ft/lb |
| Lug nuts               | 75 ft/lb  | Standard 3/8" fasteners  | 33 ft/lb |
| Blade bolt             | 90 ft/lb  | Standard 7/16" fasteners | 52 ft/lb |
|                        |           | Standard 1/2" fasteners  | 80 ft/lb |

## HEX HEAD CAP SCREWS

The torque values shown must 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          | 102 |                                   |    |
|  | 1/2  | 75          | 102  | 115         | 156 |                                   |    |
|  | 9/16 | 110         | 149  | 165         | 224 |                                   |    |
|  | 5/8  | 150         | 203  | 225         | 305 |                                   |    |
|  | 3/4  | 250         | 339  | 370         | 502 |                                   |    |
|  | 7/8  | 378         | 512  | 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 millimeters, fine or coarse thread) | M4   | 1.5       | 2   | 2.2        | 3   | 2.7        | 3.7 |
|   | 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       | 30  |
|   | M10  | 24        | 33  | 35.2       | 48  | 43.5       | 59  |
|   | M12  | 43.5      | 59  | 62.2       | 84  | 75         | 102 |
|   | M14  | 70.5      | 96  | 100        | 136 | 119        | 161 |
|   | M16  | 108       | 146 | 147        | 199 | 176        | 239 |
|   | M18  | 142       | 193 | 202        | 274 | 242        | 328 |
|   | M20  | 195       | 264 | 275        | 373 | 330        | 447 |
|   | M22  | 276       | 374 | 390        | 529 | 471        | 639 |
|   | M24  | 353       | 478 | 498        | 675 | 596        | 808 |
| M27   | 530  | 719       | 735 | 996        | 904 | 1226       |     |

# SERVICE JOURNAL

## DELIVERY SERVICE

| Action   | Date, mtr reading, stamp, sign |
|--|--------------------------------|
| Charge and connect the battery   | <input type="checkbox"/>       |
| Adjust the tire pressure of all wheels to 15 PSI (1 bar)                           | <input type="checkbox"/>       |
| Mount the steering controls in the normal position                                 | <input type="checkbox"/>       |
| Connect the contact box to the cable for the seat's safety switch                  | <input type="checkbox"/>       |
| Check that the right amount of oil is in the engine                                | <input type="checkbox"/>       |
| Adjust the position of the steering controls                                       | <input type="checkbox"/>       |
| Fill with fuel and open the fuel shut off valve                                    | <input type="checkbox"/>       |
| Start the engine   | <input type="checkbox"/>       |
| Check that there is drive to both wheels   | <input type="checkbox"/>       |
| Check mower deck pitch and adjustment  | <input type="checkbox"/>       |
| Check:   |                                |
| Safety switch for the park brake   | <input type="checkbox"/>       |
| Safety switch for the mower deck   | <input type="checkbox"/>       |
| Safety switch in the seat  | <input type="checkbox"/>       |
| Safety switch in the steering controls   | <input type="checkbox"/>       |
| Park brake functionality and adjustment  | <input type="checkbox"/>       |
| Driving forward  | <input type="checkbox"/>       |
| Driving backward   | <input type="checkbox"/>       |
| Engaging the blades  | <input type="checkbox"/>       |
| Idle speed   | <input type="checkbox"/>       |
| Engine high idle speed   | <input type="checkbox"/>       |
| Inform the customer about:   |                                |
| Need and advantages of following the service schedule                              | <input type="checkbox"/>       |
| Need and advantages of leaving the machine for service                             | <input type="checkbox"/>       |
| Effects of service and maintaining a service journal on the machine's resale value | <input type="checkbox"/>       |
| Application areas for mulching   | <input type="checkbox"/>       |
| Fill in the sales papers, etc.   |                                |

Delivery service has  
been carried out

No remaining notes

Certified:

# SERVICE JOURNAL

## AFTER 10 HOURS

| Action                            | Date, mtr reading, stamp, sign |
|-----------------------------------|--------------------------------|
| Change the engine oil             | <input type="checkbox"/>       |
| Change the oil filter             | <input type="checkbox"/>       |
| Inspect hydraulic hoses           | <input type="checkbox"/>       |
| Inspect hydraulic belt            | <input type="checkbox"/>       |
| Inspect hydraulic filter          | <input type="checkbox"/>       |
| Check neutral position            | <input type="checkbox"/>       |
| Check safety system               | <input type="checkbox"/>       |
| Check seat belt                   | <input type="checkbox"/>       |
| Check ROPS                        | <input type="checkbox"/>       |
| Check fuel system for leaks       | <input type="checkbox"/>       |
| Inspect safety guards and shields | <input type="checkbox"/>       |
| Check brake adjustment            | <input type="checkbox"/>       |

## DAILY SERVICE

| Action                                      | Date, mtr reading, stamp, sign |
|---|--------------------------------|
| Clean debris from mower                     | <input type="checkbox"/>       |
| Check engine oil level                      | <input type="checkbox"/>       |
| Check the tire pressures                    | <input type="checkbox"/>       |
| Check underside of deck                     | <input type="checkbox"/>       |
| Inspect deck pulleys                        | <input type="checkbox"/>       |
| Check/clean the engine's cooling air intake | <input type="checkbox"/>       |
| Check safety system                         | <input type="checkbox"/>       |
| Check seat belt                             | <input type="checkbox"/>       |
| Check ROPS                                  | <input type="checkbox"/>       |
| Check fuel system for leaks                 | <input type="checkbox"/>       |
| Inspect safety guards and shields           | <input type="checkbox"/>       |
| Check brake adjustment                      | <input type="checkbox"/>       |

# SERVICE JOURNAL

## 50-HOUR SERVICE

| Action                                      | Date, mtr reading, stamp, sign |
|---|--------------------------------|
| Clean debris from mower                     | <input type="checkbox"/>       |
| Check engine oil level                      | <input type="checkbox"/>       |
| Check the tire pressures                    | <input type="checkbox"/>       |
| Check underside of deck                     | <input type="checkbox"/>       |
| Inspect deck pulleys                        | <input type="checkbox"/>       |
| Check/clean the engine's cooling air intake | <input type="checkbox"/>       |
| Check safety system                         | <input type="checkbox"/>       |
| Check seat belt                             | <input type="checkbox"/>       |
| Check ROPS                                  | <input type="checkbox"/>       |
| Check fuel system for leaks                 | <input type="checkbox"/>       |
| Inspect safety guards and shields           | <input type="checkbox"/>       |
| Check brake adjustment                      | <input type="checkbox"/>       |

# SERVICE JOURNAL

## 250-HOUR SERVICE

| Action  | Date, mtr reading, stamp, sign |
|---|--------------------------------|
| Grease fittings (caster pivots and caster wheels) | <input type="checkbox"/>       |
| Inspect dampers                                   | <input type="checkbox"/>       |
| Inspect frame                                     | <input type="checkbox"/>       |
| Inspect throttle and choke cables                 | <input type="checkbox"/>       |
| Inspect hardware                                  | <input type="checkbox"/>       |
| Check the tire pressures                          | <input type="checkbox"/>       |
| Change the engine oil and filter                  | <input type="checkbox"/>       |
| Change air filter                                 | <input type="checkbox"/>       |
| Inspect spark plug                                | <input type="checkbox"/>       |
| Inspect fuel filter                               | <input type="checkbox"/>       |
| Check engine RPM                                  | <input type="checkbox"/>       |
| Clean underside of deck                           | <input type="checkbox"/>       |
| Check blade pitch                                 | <input type="checkbox"/>       |
| Grease blade spindles                             | <input type="checkbox"/>       |
| Inspect spindle bearings                          | <input type="checkbox"/>       |
| Inspect deck belt and blades                      | <input type="checkbox"/>       |
| Inspect idler arm bearings                        | <input type="checkbox"/>       |
| Inspect deck idler pulleys                        | <input type="checkbox"/>       |
| Inspect hydraulic filter                          | <input type="checkbox"/>       |
| Inspect hydraulic drive belt                      | <input type="checkbox"/>       |
| Inspect hydraulic hoses                           | <input type="checkbox"/>       |
| Check neutral position                            | <input type="checkbox"/>       |
| Inspect battery connections                       | <input type="checkbox"/>       |
| Check safety system                               | <input type="checkbox"/>       |
| Check seat belt                                   | <input type="checkbox"/>       |
| Check ROPS  | <input type="checkbox"/>       |
| Check fuel system for leaks                       | <input type="checkbox"/>       |
| Inspect safety guards and shields                 | <input type="checkbox"/>       |
| Check brake adjustment                            | <input type="checkbox"/>       |

# SERVICE JOURNAL

## 500-HOUR SERVICE

| Action  | Date, mtr reading, stamp, sign |
|---|--------------------------------|
| Grease fittings (caster pivots and caster wheels) | <input type="checkbox"/>       |
| Inspect dampers                                   | <input type="checkbox"/>       |
| Inspect frame                                     | <input type="checkbox"/>       |
| Inspect throttle and choke cables                 | <input type="checkbox"/>       |
| Inspect hardware                                  | <input type="checkbox"/>       |
| Check the tire pressures                          | <input type="checkbox"/>       |
| Change the engine oil and filter                  | <input type="checkbox"/>       |
| Change air filter                                 | <input type="checkbox"/>       |
| Inspect spark plug                                | <input type="checkbox"/>       |
| Inspect fuel filter                               | <input type="checkbox"/>       |
| Check engine RPM                                  | <input type="checkbox"/>       |
| Clean underside of deck                           | <input type="checkbox"/>       |
| Check blade pitch                                 | <input type="checkbox"/>       |
| Grease blade spindles                             | <input type="checkbox"/>       |
| Inspect spindle bearings                          | <input type="checkbox"/>       |
| Inspect deck belt and blades                      | <input type="checkbox"/>       |
| Inspect idler arm bearings                        | <input type="checkbox"/>       |
| Inspect deck idler pulleys                        | <input type="checkbox"/>       |
| Change hydraulic oil level                        | <input type="checkbox"/>       |
| Change hydraulic filter                           | <input type="checkbox"/>       |
| Replace hydraulic drive belt                      | <input type="checkbox"/>       |
| Inspect hydraulic hoses                           | <input type="checkbox"/>       |
| Check neutral position                            | <input type="checkbox"/>       |
| Inspect battery connections                       | <input type="checkbox"/>       |
| Load test battery                                 | <input type="checkbox"/>       |
| Clean electrical connections                      | <input type="checkbox"/>       |
| Inspect the clutch                                | <input type="checkbox"/>       |
| Check safety system                               | <input type="checkbox"/>       |
| Check seat belt                                   | <input type="checkbox"/>       |
| Check ROPS  | <input type="checkbox"/>       |
| Check fuel system for leaks                       | <input type="checkbox"/>       |
| Inspect safety guards and shields                 | <input type="checkbox"/>       |
| Check brake adjustment                            | <input type="checkbox"/>       |

# SERVICE JOURNAL

AT LEAST ONCE EACH YEAR

| Action                                    | Date, mtr reading, stamp, sign |
|---|--------------------------------|
| Clean the engine's cooling air intake     | <input type="checkbox"/>       |
| Replace the air cleaner's foam pre-filter | <input type="checkbox"/>       |
| Replace the air filter's paper cartridge  | <input type="checkbox"/>       |
| Change the engine oil                     | <input type="checkbox"/>       |
| Replace the engine oil filter             | <input type="checkbox"/>       |
| Check/adjust the cutting height           | <input type="checkbox"/>       |
| Check/adjust the park brake               | <input type="checkbox"/>       |
| Clean/Change the spark plugs              | <input type="checkbox"/>       |
| Inspect spark plug                        | <input type="checkbox"/>       |
| Check the engine valve clearance          | <input type="checkbox"/>       |



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

115 72 12-28 Rev D  
2016-12-30