Gasoline containing up to 10% ethanol (E10) is acceptable for use in this machine. The use of any gasoline exceeding 10% ethanol (E10) will void the product warranty.

Operator Manual
MZ5424SR / 967003902

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

When this product is worn out and no longer used, it should be returned to the reseller or other party for recycling.
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**WARNING!**
Failure to follow cautious operating practices can result in serious injury to the operator or other persons. The owner must understand these instructions, and must allow only trained persons who understand these instructions to operate the mower.

Each person operating the mower must be of sound mind and body and must not be under the influence of any mind altering substance.

---

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

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**WARNING!**
Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.
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 that is 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. Ensure that service and repair work are documented. A well-kept service journal reduces service costs for the maintenance and affects the machine’s resale value. Please contact your dealer for more information. Take the operator 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 normal driving direction.

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

Driving and Transport on Public Roads
Check applicable road traffic regulations before transporting on public roads. If the machine is transported, you must always use approved fastening equipment and ensure that the machine is well anchored. DO NOT operate this machine on public roadways.

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

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

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

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

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

The machine must only be operated, maintained, and repaired by persons familiar with the machine’s special characteristics and who are also knowledgeable about the safety instructions. Use only approved repair parts to maintain this machine.

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

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

Husqvarna’s products are sold 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., please consult the following professional:

<table>
<thead>
<tr>
<th>This Operator Manual belongs to the machine with the manufacturing number:</th>
<th>Engine</th>
</tr>
</thead>
</table>

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

**WARNING!**

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

**IMPORTANT INFORMATION**

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

- **Reverse**
- **Neutral**
- **Fast**
- **Slow**
- **Choke**
- **Fuel**

- **Warning!**
- **Parking Brake**
- **CE conformity marking. Only for European market**
- **Do not stand here**

- **Use protective glasses**
- **Use protective gloves**
### SYMBOLS AND DECALS

<table>
<thead>
<tr>
<th>Shut off engine and remove key before performing any maintenance or repair work</th>
<th>Keep a safe distance from the machine</th>
<th>Use on slopes no greater than 10°</th>
<th>No passengers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read Operator Manual</td>
<td>No passengers</td>
<td>Use on slopes no greater than 10°</td>
<td>No passengers</td>
</tr>
</tbody>
</table>

- **Moving sharp blades under cover**
- **Battery acid is corrosive, explosive and flammable**
- **Warning! Rotating blades, keep away from the discharge deck**
- **Do not touch parts**
- **Whole body exposure to thrown objects**
- **Severing of fingers and toes**
- **Do not open or remove safety shields while engine is running**
- **Careful backing up, watch for other people**
- **Careful going forward, watch for other people**
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!**
This symbol means that important safety instructions need to be emphasized. It concerns your safety.

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

Read the operator manual before starting the machine

Clear the area of objects before mowing
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.
- Operate machine only in daylight or good artificial light.
- 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.
- Data indicates that operators age 60 years and above are involved in a large percentage of riding mower-related injuries. These operators should evaluate their ability to operate the riding mower safely enough to protect themselves and others from serious injury.
- Follow the manufacturer’s recommendation for wheel weights or counterweights.
- Anyone who operates this machine must first read and understand this Operation Manual. Local laws may regulate the age of the user.
- Keep machine free of grass, leaves or other debris buildup which can touch the hot exhaust or engine parts and burn. Do not allow the mower deck to plow leaves or other debris, causing buildup to occur.
- Clean any oil or fuel spillage before operating or storing the machine.
- Allow machine to cool before storage.

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.
SAFETY

Personal Safety Equipment

**WARNING!**

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

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

**Slope Operation**

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

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

**WARNING!**

Do not drive up or down hills with slopes greater than 10 degrees. Do not drive across any slopes.
• Do not try to stabilize the machine by putting a foot on the ground.
• Do not mow near drop-offs, ditches, or embankments. The machine could suddenly roll over if a wheel is over the edge or if the edge caves in.

WARNING!
CHILDREN CAN BE INJURED BY THIS EQUIPMENT. The American Academy of Pediatrics recommends that children be a minimum of 16 years of age before operating a riding lawn mower. Keep children out of the mowing area and in the watchful care of a responsible adult other than the operator.

Children
Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. Never assume that children will remain out of the path of danger.
• Keep children out of the mowing area and in the watchful care of a responsible adult other than the operator.
• Be alert and turn machine off if a child enters the area.
• Before and while backing, look behind and down for small children.
• Never carry children, even with the blades shut off. They may fall off and be seriously injured or interfere with safe machine operation. Children who have been given rides in the past may suddenly appear in the mowing area for another ride and be run over or backed over by the machine.
• Never allow children to operate the machine.
• Use extra care when approaching blind corners, shrubs, trees, or other objects that may block the view of a child.
Safe Handling of Gasoline

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

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

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

- Never operate machine in a closed area.
- Keep all nuts and bolts tight to be sure the equipment is in safe working condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris buildup. Clean oil or fuel spillage and remove any fuel-soaked debris. Allow machine to cool before storing.
- If the machine strikes a foreign object, stop and inspect the machine. Repair, if necessary, before restarting.
- Never make any adjustments or repairs with the engine running.
- Check grass catcher components and the discharge guard frequently and replace with manufacturer’s recommended parts, when necessary.
- Mower blades are sharp. Wrap the blade or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.
- Maintain or replace safety and instruction labels, as necessary.
- Do not modify safety equipment. Check regularly to be sure it works properly. The machine must not be driven with defective or unmounted protective plates, protective cowlings, safety switches, or other protective devices.
- Do not change the settings of governors and avoid running the engine with overly high engine speeds. If the engine runs too fast, there is risk for damaging the machine components.
- Be very careful when handling battery acid. Acid on skin can cause serious corrosive burns. If battery acid is spilled on skin, rinse immediately with water.
- Acid in the eyes can cause blindness, contact a doctor immediately.
- Be careful when servicing the battery. Explosive gases form in the battery. Never perform maintenance on the battery when smoking or near open flames or sparks.
- The battery can explode and cause serious injury or damage.
- 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.
Sparking can occur when working with the battery and the heavy cables of the starter circuit. This can cause battery explosion, fire or eye injury. Sparking in this circuit can not occur after the chassis cable (normally negative, black) is removed from the battery.

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

- Use protective goggles.
- Ensure that the fuel filler cap is mounted tightly and no flammable substances are stored in an open vessel.
- Never work with the starter circuit if there is spilled fuel.
- Disconnect the chassis cable from the battery first and reconnect it last.
- Do not make a bridge short circuit across the starter relay to run the starter.

- Never use the machine indoors or in spaces lacking proper ventilation. The exhaust fumes contain carbon monoxide, an odorless, poisonous, and lethal gas.
- Stop to inspect the equipment if you run over or into anything. If necessary, make repairs before starting.
- Never make adjustments with the engine running.
- The machine is tested and approved only with the equipment originally provided or recommended by the manufacturer. Only use approved repair parts for the machine.
- The blades are sharp and can cause cuts and gashes. Wrap the blades or use protective gloves when handling them.
- Check the parking brake functions regularly. Adjust and service as necessary.
- Mulch blades should only be used in familiar areas when higher quality mowing is desired.
- Reduce the risk of fire by removing grass, leaves, and other debris that may have accumulated on the machine.
- Allow the machine to cool before putting it in storage.
- Regularly clean deck and underside of deck, avoid spraying engine and electrical components with water.
SAFETY

Transport
- The machine is heavy and can cause serious crushing injuries. Be extra cautious when it is loaded on or unloaded from a vehicle or trailer.
- Use an approved trailer to transport the machine. Activate the parking brake, turn off the fuel supply, and fasten the machine with approved fastening devices, such as bands, chains, or straps, when transporting.
- Do not operate this machine on public roadways.
- Check and abide by local traffic regulations before transporting the machine on any road.
- Do not tow this machine: it may cause damage to the drive system.
- 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 exceed the maximum recommended operation angle of $10^\circ$.

Towing
If machine is equipped with a tow hitch, use extreme caution when towing. Never allow children or others in or on towed equipment.
Make wide turns to avoid jack-knifing. Travel slowly and allow extra distance to stop. Do not tow on sloped ground. The weight of the towed equipment may cause loss of traction and loss of control.
Follow the manufacturer’s recommendation for weight limits for towed equipment. Do not tow near ditches, canals, and other hazards.

Spark Arrestor
This mower is equipped with an internal combustion engine and should not be used on or near any unimproved forested, bush covered or grassy lands unless the engine’s system is equipped with a spark arrester meeting applicable local or state laws (if any).
In the state of California the above is required by law (Section 4442 of the California Public Resources Code).
Other states may have similar laws. Federal laws apply on federal lands.
A spark arrester for the muffler is available through any authorized Husqvarna dealer.

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

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.

WARNING!
This mower is equipped with an internal combustion engine and should not be used on or near any unimproved forested, bush covered or grassy lands unless the engine’s system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.
Rollover Protection System (ROPS)
The ROPS increases the basic weight of the unit by 73 lbs/33 kg.

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

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.
This operator manual describes the Husqvarna Zero Turn Rider. The rider is fitted with a Kawasaki 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.

Control Locations

1. Motion control levers
2. Parking brake
3. Tracking knob
4. Fuel tank
5. Hydro release levers
6. Choke control
7. Ignition switch
8. Hour meter
9. Throttle control
10. Blade switch
11. Seat adjustment lever
12. Right tracking bolt
13. Cutting height adjuster
14. Deck lift pedal
**Motion Control Levers**

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

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

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

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

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

**WARNING!**

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

---

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

**Motion control lever pattern (right side)**
Parking Brake
The parking brake is found on the left of the machine. Pull the lever backward to activate the brake and push forward to release it.

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

Throttle Control
The throttle control regulates the engine speed and thereby the rate of rotation of the blades, assuming the blade switch is pulled out, see Blade Switch. 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.

Blade Switch
To engage the mower deck blades, pull the knob up; the mower blades are disengaged when the knob is pushed down.
CONTROLS

Ignition Switch
The ignition switch is placed on the control panel and is used to start and stop the engine. Turn the key clockwise to start the engine.

Choke Control
The choke control is used for cold starts in to provide the engine with a richer fuel mixture. For cold starts the control should be pulled out to its extent. Push the choke in once the engine starts.

Hour Meter
The hour meter displays the total operating time with the blade activated. The display on the hour meter will turn on the oil can icon after every fifty hours of use and will stay on for two hours or until the meter is manually reset. To manually reset the timer, turn the ignition key to the run position. Engage and disengage the blade switch five times at one second intervals.
Fuel Tank
Read the safety instructions before refueling. The capacity for the tank is 5 gallons (19 liters).
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.

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

**WARNING!**
The engine and the exhaust system, become very hot during operation.
Risk for burns if touched.
Allow engine and exhaust system to cool before refueling.

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

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

Fuel Shut Off Valve
The fuel shut off valve is centered behind the rear of the seat. The valve is off when the handle tab is turned perpendicular to the fuel line.

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

Cutting Height Adjuster
The desired cutting height is set with the height pin. The cutting height pedal releases the deck lift to place the deck and the selected height. For transport, push the lift pedal fully forward until the deck lift latches in the transport (highest) position.

**IMPORTANT INFORMATION**
To obtain an even cutting height, it is important that the air pressure in all tires is 15 psi / 103 kPa / 1 bar.

Bypass Linkages
Transaxle bypass linkages must be engaged when pushing or pulling the mower. The release levers are located on each side of the rear of the unit below the rear engine plate. See *Moving Machine By Hand* in the *Operation* section.

Right side, hydro release lever
**Seat Adjustment Lever**

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

**Fuses**

Fuses are located on the left hand side of the machine. They are accessed by tilting the seat forward. Fuses are flat pin fuses type as used in automobiles.

There are two fuses with ratings and functions:
1. 20 A, Primary fuse
2. 7.5 A, Mower deck coupling

**Tracking Knob**

If the mower is not tracking straight, check the air pressure in both rear tires. Recommended air pressure is 10 psi (.7 bar) for the front tires and 15 psi (1 bar) for the rear tires. Tracking must be checked on a flat and level concrete or blacktop surface.

Rotating the tracking knob allows fine tuning adjustments so the machine tracks straight with the steering control levers in the full forward position.

When in the operating position, rotate the knob out to loosen and increase the speed on the left lever. Rotate in to tighten and decrease speed.
Read the Safety section and the 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 should 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 should 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.

First time users should push the mower (see Manual Transport 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 parking 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 allow mower to start moving forward in a straight line. Pull the control levers back to the neutral position and the mower should 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 should stop moving.

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

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

To zero turn
While moving in a forward direction, first pull both control levers back until the mower stops or slows dramatically.

Then by alternating one lever slightly to the forward position and the other in the reverse position, the mower turns to the direction of the reverse position lever.
Before Starting

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.
4. Adjust the seat to the desired position.

5. Set the deck cutting height by inserting the lift pin into the desired cut height.

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

- The blade switch must be pressed downward into the disengaged position.
- The parking brake must be up into the activated position.
- Both steering controls must be in the locked (outer) neutral position.
Starting the Engine

1. Sit on the seat.
2. Raise the mower deck to the transport position by locking the lift pedal fully forward.

3. Activate the parking brake.

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

6. Move the throttle to the middle position. If the engine is cold, the choke control should be pulled up.

7. Open the fuel tank valve.
8. Press in and turn the ignition key to the start position.

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

9. When the engine starts, immediately release the ignition key back to the run position.
10. Slowly push in the choke control knob, if it was used to start a cold engine.

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

11. Set the engine speed with the throttle. Allow the engine to run at a moderate speed, approximately mid throttle, for 3-5 minutes before loading it too heavily. **USE FULL THROTTLE WHEN MOWING** (no choke).
**WARNING!**
Lead-acid batteries generate explosive gases. Keep sparks, flame and smoking materials away from batteries. Always wear eye protection when around batteries.

**IMPORTANT INFORMATION**
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 the mower to start other vehicles.

**IMPORTANT INFORMATION**
Refer to the EFM Information Sheet from the unit literature packet for specific jump starting instructions.

If the battery is too weak to start the engine, it should be recharged. (See **Battery** in the **Maintenance** section.)

**Jumper Cables 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.
**Running**

1. Release the parking brake by moving the lever downward.
   
   NOTE: The mower is equipped with an operator presence system. When the engine is running, any attempt by the operator to leave the seat without first setting the parking brake will shut off the engine.

2. Move the steering controls inwards, out of the neutral position (N).


   **WARNING!**
   
   Make sure that no one is near mower when engaging blade switch.
   
   Make sure the work area is free from objects that could be thrown by the rotating blades.

4. Move throttle control to full throttle (rabbit symbol).

5. Engage the mower deck by pulling out the blade switch.
Operating on Hills
Read the Safety Instructions *Driving on Slopes* in the *Safety* section.

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

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

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

*Place controls in neutral position*

*Release the parking brake to restart movement*
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 depressing the blade switch.

4. Raise the mower deck by pressing the foot pedal forward to the transport position.
5. When the machine is standing still, activate the parking brake by pulling the lever upward. If the engine has been worked hard, allow it to idle at least 60 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.
7. Remove key. Always remove key when leaving the mower to prevent unauthorized use.
Mowing Tips

- Observe and flag rocks and other fixed objects to avoid collisions.

- Begin with a high cutting height and reduce it until the desired mowing result is attained. The average lawn should be cut to 2½" (64 mm) during the cool season and over 3" (76 mm) during the hot months. For healthier and better looking lawns, mow often after moderate growth.

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

- The mowing result will be best with a high engine speed (the blades rotate rapidly) and low speed (the rider moves slowly). If the grass is not too long and dense, the driving speed can be increased without negatively affecting the mowing result.

- The finest lawns are obtained by mowing often. The lawn becomes more even and the grass clippings more evenly distributed over the mown area. The total time taken is not increased as a higher operating speed can be used without poor mowing results.

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

- Hose the mower deck underside with water after each use. When cleaning, the mower deck shall be raised into the transport position. Make sure the mower is cooled and the engine is off.

- Use compressed air to clean top surface of the deck. Avoid flooding water on top surface, engine and electrical components.

- When the mulching kit is used, it is important that the mowing interval is frequent and that the deck is cleaned more often.

**WARNING!**

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

**WARNING!**

Never drive the rider on terrain that slopes more than 10 degrees. Mow slopes up and down, never side to side. Avoid sudden directional changes.
Moving Machine By Hand
When pushing or pulling the mower, engage the IZT (Integrated Zeroturn Transaxle) bypass linkages. The release levers are located on each side of the rear of the unit below the rear engine plate.
1. Raise the deck to the highest (transport) position.
2. Pull the release levers up and out of the keyhole slots. Release the levers with the head outside the bracket and held into the bypass setting.
3. To reengage the IZTs to drive, reverse the above procedure.

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!
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.

WARNING!
Make no adjustments without:
• the engine stopped,
• the ignition key removed,
• the parking brake activated

WARNING!
Bypass linkages are located close to the muffler. To prevent burns, the engine should be shut off and allowed to cool before the bypass linkage levers are handled.
**Maintenance Schedule**

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

<table>
<thead>
<tr>
<th>MAINTENANCE</th>
<th>Daily</th>
<th>At least once each year</th>
<th>Maintenance interval in hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Before</td>
<td>After</td>
<td>50</td>
</tr>
<tr>
<td>Check the parking brake</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check the engine’s oil level (every refueling)</td>
<td>■</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check the safety system</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check for fuel and oil leakages</td>
<td>♦</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check/clean the engine’s cooling air intake</td>
<td>■</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check the mower deck</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check for loose hardware (screws, nuts)</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clean under the mower deck</td>
<td>● ● ●</td>
<td>● ● ● ● ● ●</td>
<td></td>
</tr>
<tr>
<td>Start the engine and blades, listen for unusual sounds</td>
<td>♦</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check for damage</td>
<td>♦</td>
<td></td>
<td>♦ ♦</td>
</tr>
<tr>
<td>Thoroughly clean around the engine</td>
<td>♦ ♦ ♦</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clean around belts, belt pulleys</td>
<td>♦ ♦ ♦</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check the tire pressures</td>
<td>● ● ●</td>
<td>● ● ● ● ● ●</td>
<td></td>
</tr>
<tr>
<td>Check battery connections</td>
<td>● ● ●</td>
<td>● ● ● ● ● ●</td>
<td></td>
</tr>
<tr>
<td>Sharpen / Replace mower blades</td>
<td>● ● ●</td>
<td>● ● ● ● ● ●</td>
<td></td>
</tr>
<tr>
<td>Clean the engine’s cooling air intake</td>
<td>■</td>
<td>■ ■ ■ ■ ■ ■</td>
<td></td>
</tr>
<tr>
<td>Clean the air cleaner’s foam pre-filter</td>
<td>■</td>
<td>■</td>
<td></td>
</tr>
<tr>
<td>Clean the air cleaner’s paper filter cartridge</td>
<td>■</td>
<td>■</td>
<td></td>
</tr>
<tr>
<td>Check/adjust the parking brake</td>
<td>● ● ●</td>
<td>● ● ● ● ● ●</td>
<td></td>
</tr>
<tr>
<td>Inspect muffler/spark arrestor</td>
<td>♦ ♦ ♦</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

● = Described in this manual

♦ = Not described in this manual

■ = Refer to the engine manufacturer’s manual
<table>
<thead>
<tr>
<th>Maintenance Task</th>
<th>Daily</th>
<th>At least once each year</th>
<th>Maintenance interval in hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Before</td>
<td>After</td>
<td>50</td>
</tr>
<tr>
<td>Check/adjust throttle cable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check the condition of belts, belt pulleys</td>
<td></td>
<td></td>
<td>●</td>
</tr>
<tr>
<td>Change the engine oil 1)</td>
<td></td>
<td></td>
<td>■</td>
</tr>
<tr>
<td>Replace the engine oil filter</td>
<td></td>
<td></td>
<td>■</td>
</tr>
<tr>
<td>Clean/replace the spark plugs</td>
<td></td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Replace the fuel filter</td>
<td></td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Replace paper air filter 2)</td>
<td></td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Check the caster wheels (every 200 hours)</td>
<td></td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>Replace the air cleaner’s foam pre-filter 2)</td>
<td></td>
<td>■</td>
<td></td>
</tr>
<tr>
<td>Change the hydraulic oil (every 500 hours)</td>
<td></td>
<td>■</td>
<td>●</td>
</tr>
<tr>
<td>Replace the hydraulic oil filter (every 500 hours)</td>
<td></td>
<td>■</td>
<td>●</td>
</tr>
<tr>
<td>Dismantle and inspect starter 3) (every 500 hours)</td>
<td></td>
<td>■</td>
<td></td>
</tr>
<tr>
<td>Check/adjust the mower deck</td>
<td></td>
<td>■</td>
<td>●</td>
</tr>
<tr>
<td>Check the engine valve clearance 3)</td>
<td></td>
<td>■</td>
<td>♦</td>
</tr>
<tr>
<td>Perform the 500-hour service 3)</td>
<td></td>
<td>■</td>
<td>♦</td>
</tr>
</tbody>
</table>

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.
● = Described in this manual
♦ = Not described in this manual
■ = Refer to the engine manufacturer’s manual

**WARNING!**
Before performing any service or adjustment checklist
- Engage the parking brake.
- Place the Blade-switch in the disengaged position.
- Turn the ignition switch to OFF position and remove the key.
- Make sure the blades and all moving parts have completely stopped.
Battery
Your mower is equipped with a maintenance free battery and does not need servicing. However, periodic charging of the battery with an automotive type battery charger will extend its life.

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

CAUTION!
Always wear eye protection when around batteries.

Corrosion and dirt on the battery and terminals can cause the battery to lose power.
1. Open the terminal access doors.
2. Disconnect BLACK battery cable first, then the RED battery cable and remove the battery from the machine.
3. Rinse the battery with plain water and dry.
4. Clean terminals and battery cable ends with wire brush until shiny.
5. Coat terminals with grease or petroleum jelly.
6. Reinstall battery.

Replacing battery
1. Lift seat and rotate forward.
2. Open terminal access doors
3. Using two ½" wrenches disconnect BLACK battery cable then RED battery cable.
4. Using a 7/16 wrench, remove the bolts on either side of the terminal guard and lift off guard.
5. Carefully remove the battery from the mower.
6. Install new battery with terminals in the same position as the old battery.
7. Reinstall battery terminal guard.
8. Connect RED battery cable to positive (+) battery terminal with hex bolt and hex nut.
9. Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt and hex nut.
10. Close access doors.
11. Lower seat.

<table>
<thead>
<tr>
<th>STANDARD BATTERY</th>
<th>STATE OF CHARGE</th>
<th>APPROXIMATE BATTERY CHARGING TIME* TO FULL CHARGE AT 80°F / 27°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.6V</td>
<td>100%</td>
<td>FULL CHARGE</td>
</tr>
<tr>
<td>12.4V</td>
<td>75%</td>
<td>20 min. 35 min. 48 min. 90 min.</td>
</tr>
<tr>
<td>12.2V</td>
<td>50%</td>
<td>45 min. 75 min. 95 min. 180 min.</td>
</tr>
<tr>
<td>12.0V</td>
<td>25%</td>
<td>65 min. 115 min. 145 min. 280 min.</td>
</tr>
<tr>
<td>11.8V</td>
<td>0%</td>
<td>85 min. 150 min. 185 min. 370 min.</td>
</tr>
</tbody>
</table>

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

IMPORTANT INFORMATION
Do not attempt to open or remove caps or covers. Adding or checking level of electrolyte is not necessary.
Always use two wrenches for the terminal screws.

WARNING!
Do not short battery terminals by allowing a wrench or any other object to contact both terminals at the same time.
Before connecting battery, remove metal bracelets, wristwatch bands, rings, etc.
Positive terminal must be connected first to prevent sparks from accidental grounding.

1. Terminal guard
2. Access doors
Battery cleaning and installation
Safety System
This machine is equipped with a safety system that prevents starting or driving under the following conditions.
The engine can only be started when:
1. The mower deck is disengaged.
2. The steering controls are in the outer, locked neutral position.
3. The parking brake is on.
Make daily inspections to ensure that the safety system works by attempting to start the engine when one of the conditions is not met. Change the conditions and try again.
If the machine starts when one of these conditions is not met, turn the machine off and repair the safety system before using the machine again.
Make sure the engine stops when the park brake is 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.

Tire Pressures
Fill tire pressures to 15 psi / 103 kPa / 1 bar.

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

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

IMPORTANT INFORMATION
The machine must be not be moving when engaging the parking brake.
Deck Belt

Deck Belt Removal
Park on a level surface. Apply park brake. Lower the deck into the lowest cutting position.
1. Remove foot plate and belt shields.
2. Using a ratchet or breaker bar with a \(\frac{9}{16}\)" socket on the spring idler bolt, relieve the tension on the belt.
3. Remove any dirt or grass that may have accumulated around the cutter housings and entire deck surface.
4. Carefully slip the belt over the top of the cutter housing pulleys.
5. Remove the belt from around the electric clutch on the engine shaft and off the mower deck.

Deck Belt Installation
NOTE: For ease in installing the deck belt, refer to the routing decal on the deck.
1. Wrap the deck belt around the electric clutch pulley that is located on the engine shaft.
2. Route the belt forward between the spring loaded and stationary pulleys.
3. Place belt around spring loaded idler pulley.
4. Wrap the belt around the stationary idler pulley and around the mandrel housings.
5. Push inward on the idler arm and carefully route belt over stationary idler pulley. Once the belt is properly routed, slowly release the idler arm to tighten the belt.
6. Check that there are no twists in the belt and that the routing matches the routing decal.
7. Replace belt shields on both mandrel housings and secure with fasteners.
Pump Belt
The belts are not adjustable. Replace belts if they begin to slip from wear.

Replacing Pump Belt
Park the mower on a level surface. Engage the parking brake.

Belt Removal
From the top side of the deck:
1. Remove the deck belt (see Deck Belt Removal in this section of the manual).
2. Tilt seat forward to access fan covers. Remove both fan covers.

From the underside of the mower:
3. Remove clutch stop to access the belt.
4. With a ½" breaker bar and using the square opening in the pump idler arm, shift the arm to create slack in the belt.
5. With the idler arm in the slack position, slip a screwdriver, clevis pin or similar into the ¾" hole in the plate that sits between the two fan covers. This will keep the idler in the extended position and allow removal of the breaker bar.
6. Remove belt from the engine and pump pulleys over the top of the fans.

Belt Installation
7. If the pump is not locked in the extended position, repeat Steps 4 and 5 from the above instructions.
8. Slip the belt over the fans and route it between the idler pulleys.
9. Place the belt over the right and left idler pulleys.
10. Place the belt on the engine pulley.
11. Use the breaker bar to hold the tension off the belt while removing the implement used as a brace in the plate.
12. Replace and secure clutch stop.
13. Reinstall the fan shields.
14. Reinstall the deck belt. (See Deck Belt Installation in this section of the manual).

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.
Cutting Blades
For the best moving results, it is important that blades are well sharpened and not damaged.
Replace blades that have been bent or cracked by 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.

WARNING!
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 counterclockwise.
2. Install new or resharpened blade with stamped GRASS SIDE facing towards ground/grass (down) or THIS SIDE UP facing deck and spindle housing.
3. Seat the blade’s opening firmly onto the spindle housing.
4. Tighten blade bolt securely.
5. Torque blade bolt to 40-55 ft/lbs (54-75 Nm).

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

Check the tire pressure before adjustment of the mower deck. See Tire Pressures in Maintenance section. Faulty mower deck adjustments will cause an uneven mowing result.

Leveling deck

Adjust the deck while the mower is on a level surface. Make sure the tires are inflated to the correct pressure. See Technical Data / Transmission. If the tires are under or over inflated, the deck cannot be properly adjusted.

Four slots control the height and pitch of the mower deck. The deck should be adjusted slightly higher in the rear.

NOTE: To insure accuracy of leveling procedure, mower deck drive belt must be installed prior to leveling deck.

1. Wear heavy gloves. Turn each outer blade tip to either 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 move mounting bolt up or down in slot until both side-to-side measurements are equal.
3. Turn both outer blades to align with the deck in front-to-rear manner. Reposition rear mounting bolts up or down until rear of mower deck is positioned level to ⅛" higher in the rear than the side-to-side measurement.
4. Confirm measurements once again. Blade tips should be level in a side-to-side manner. In the rear, blade tips should be level to ⅛" higher than side-to-side measurement. In the front, blade tips should be level to ⅛" lower than side-to-side measurement.

NOTE: This will place the mower deck in a standard measurement position. Additional adjustments may be required to achieve the desired cut for the type of grass or conditions being mowed.
Anti-scalp rollers

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

**IMPORTANT INFORMATION**

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

Anti-scalp rollers can be set in three positions:
- Upper position 1½ to 3" (38 to 76 mm) grass.
- Middle position 3" to 4½" (76 to 114 mm) grass.
- Lower position 4½" to 6" (114 to 152 mm) grass.

The rollers should be approximately ¼" (6.5 mm) from ground. Do not adjust the rollers to support the deck.

**IMPORTANT INFORMATION**

To avoid deck damage, the anti-scalp rollers must not be adjusted to support the deck.
Caster Wheels
Check every 200 hours. Check that wheels rotate freely.

**IMPORTANT INFORMATION**
DO NOT add any type of tire liner or foam fill material to the tires. Excessive loads created by foam tires will cause premature failures.
Use only O.E.M. specified tires.

Removal and Installation
Remove nut and caster bolt. Pull the wheel out of the fork.
To reinstall, reverse the order. Tighten caster bolt.
If wheels do not rotate freely, take the unit to the dealer for service.

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

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 debris sticks.
Use compressed air to clean the top side of mower deck. For cleaning the underside of the deck, use the cleanout port.
Attach the connect coupler (from the accessory packet) to any garden hose. After mowing, snap the hose to the cleanout port on the deck and turn on the water supply.
Restart the mower and engage the blades to use the spinning action to wash away debris. Make sure the hose is away from the mower blades.
Avoid spraying water on the engine and electrical components.
When cleaning is complete, turn off the engine, turn off the water supply to the hose and disconnect the connect coupler from the deck.
Allow the mower to dry completely before storage.

Use protective glasses when cleaning and washing.
Lubrication Schedule

<table>
<thead>
<tr>
<th>12/12 Every year</th>
<th>1/52 Every Week</th>
<th>1/365 Every day</th>
<th>25h</th>
<th>50h</th>
<th>100h</th>
<th>200h</th>
<th>300h</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Lubricate with grease gun
2. Filter change
3. Oil change
4. Level check

* Change hydraulic drive filters.

▲ See Engine Manufacturer’s manual

**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 should be lubricated twice weekly.

Wipe away excess grease after lubrication.

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

**Engine oil change**

*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.*

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 left rear of the engine. 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 Zerks**

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

**Front Wheel Mount**

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

**Front Wheel Bearings**

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

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.

Transaxle (Transmission) Fluid Change
This transaxle 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 200 hours is recommended. The following procedure is performed with the transaxles installed in the mower and the mower on level ground. Apply the pump release valve for each transaxle and set the parking brake.

1. Remove the three ¼” filter guard screws and filter guard. Clean any loose debris from around the perimeter of the filter. See illustration.
2. Place an oil drain pan (12” or more diameter and 8 qt. capacity is optimal) beneath the oil filter. Remove the oil filter from the transaxle.
3. After the oil has drained, wipe the filter base surface and apply a film of new oil to the gasket of the replacement filter.
4. Install the new filter by hand, turning it three-quarters to one full turn after the filter gasket contacts the filter base surface.
5. Reinstall the filter guard. Torque screws to 65 in/lbs. each.
6. Repeat steps on the opposite side.

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.

1. Filter guard
2. Transaxle filter
3. Top port plug

ZT-3100 filter change
7. 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.

8. Remove the top port plug from the left side and right side of the transaxles prior to filling with oil. This will allow the transaxles to vent during oil fill.

9. Remove the cap from the transaxles’ expansion tank located on the vehicle frame.

10. Fill with 20W50 motor oil until oil just appears at the bottom of each transaxles’ top port (approximately 2 quarts per transaxle, 4 quarts total). Install the top port plug into each transaxle as the oil level reaches the port.

11. Install and torque the top port plugs to 180 in./lbs.

12. Continue to fill the transaxles through the expansion tank until the FULL COLD line is reached (approximately 23 additional ounces).

13. Reinstall the expansion tank cap by hand. Do not overtighten.

14. Proceed to purge procedure.

Purge Procedure

Transmission Purging

Due to the effects air has on efficiency in hydrostatic drive applications, it is critical to purge the system. These purge procedures should be implemented any time a hydrostatic system has been opened to facilitate maintenance or any additional oil has been added to 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.

Before starting, make sure the oil tank is at the proper oil level. If not, fill to the specifications outlined above. The following procedures are best performed 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, check the oil level while the oil is cold and adjust accordingly.
# TROUBLESHOOTING

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
</tr>
</thead>
</table>
| Engine will not start        | • Blade switch is engaged  
                                 | • Steering controls are not locked in the neutral position  
                                 | • Parking brake is not activated  
                                 | • Battery is dead  
                                 | • Contamination in the carburetor or fuel line  
                                 | • Fuel supply is closed  
                                 | • Clogged fuel filter or fuel line  
                                 | • Faulty ignition system |
| Starter does not turn the engine over | • Dead battery  
                                 | • Poor contacts on the battery terminal cable connections  
                                 | • Fuse blown  
                                 | • Ignition system faulty  
                                 | • Fault in the starter safety circuit See Safety System in the Maintenance section |
| Engine runs rough            | • Faulty carburetor  
                                 | • Clogged fuel filter or jet  
                                 | • Clogged ventilation valve on the fuel cap  
                                 | • Fuel tank nearly empty  
                                 | • Fouled spark plug  
                                 | • Spark plug is loose  
                                 | • Rich fuel mixture or fuel-air mixture  
                                 | • Water in the fuel  
                                 | • Clogged air filter |
| Engine seems weak            | • Clogged air filter  
                                 | • Fouled spark plugs  
                                 | • Carburetor incorrectly adjusted |
# TROUBLESHOOTING

<table>
<thead>
<tr>
<th>Problem</th>
<th>Cause</th>
</tr>
</thead>
</table>
| Machine vibrates                        | • Blades are loose  
                                    | • Blades are incorrectly balanced  
                                    | • Engine is loose  
                                    | • Blades are bent |
| 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  
                                    | • Fouled spark plug |
| Battery not charging                    | • Poor contact with battery terminal cable connectors  
                                    | • Charging lead is disconnected  
                                    | • Fault in engine charging system |
| Machine moves slowly, unevenly, or not  | • Parking brake on  
                                    | • Bypass valve on pump open  
                                    | • Drive belt for the transmission gears slack or has come off  
                                    | • Air in hydraulic system |
| Mower deck not engaging                 | • Drive belt for the mower deck has come loose  
                                    | • Contact for the electromagnetic coupling has loosened  
                                    | • The blade switch is faulty or has come loose, from the cable contact  
                                    | • The fuse has blown |
| Hydraulic drive leaks oil               | • Damaged seals, housing, or gaskets  
                                    | • Air trapped in hydraulic system |
| Uneven mowing results                   | • Unequal tire pressure on the left and right sides  
                                    | • Blades are bent  
                                    | • Suspension for the mower deck is uneven  
                                    | • Blades are dull  
                                    | • Driving speed too high  
                                    | • The grass is too long  
                                    | • Grass collected under the mower deck |
STORAGE

Winter Storage
The machine should be readied for storage at the end of the mowing season or if it will not be used for longer than 30 days.

Fuel allowed to stand for long periods of time (30 days or more) can leave sticky residues that can plug the carburetor and disrupt engine function.

Fuel stabilizers are an acceptable option as regards to the sticky residues that can occur during storage. Add stabilizer to the fuel in the tank or in the storage container. Always use the mixing ratios specified by the manufacturer of the stabilizer. Run the engine for at least 10 minutes after adding the stabilizer so that it reaches the carburetor. Do not empty the fuel tank and the carburetor if a stabilizer has been added.

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

Service
When ordering spare parts, please specify the purchase year, model, type, and serial number. Always use genuine Husqvarna spare parts.

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

WARNING!
Never store an engine with fuel in the tank indoors or in poorly ventilated spaces where fuel vapor can come in contact with open flames, sparks, or a pilot light such as in a boiler, hot water tank, clothes 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. Never use gasoline for cleaning. Use a degreaser and warm water instead.
### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Engine</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Manufacturer</strong></td>
</tr>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td><strong>Power</strong></td>
</tr>
<tr>
<td><strong>Lubrication</strong></td>
</tr>
<tr>
<td><strong>Fuel</strong></td>
</tr>
<tr>
<td><strong>Fuel tank capacity</strong></td>
</tr>
<tr>
<td><strong>Cooling</strong></td>
</tr>
<tr>
<td><strong>Alternator</strong></td>
</tr>
<tr>
<td><strong>Starter</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transmission</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Transmission</strong></td>
</tr>
<tr>
<td><strong>Speed and direction controls</strong></td>
</tr>
<tr>
<td><strong>Speed forward</strong></td>
</tr>
<tr>
<td><strong>Speed reverse</strong></td>
</tr>
<tr>
<td><strong>Brakes</strong></td>
</tr>
<tr>
<td><strong>Front caster tires, smooth tread</strong></td>
</tr>
<tr>
<td><strong>Rear tires, turf pneumatic</strong></td>
</tr>
<tr>
<td><strong>Tire pressures</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Frame</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cutting Width</strong></td>
</tr>
<tr>
<td><strong>Cutting Height</strong></td>
</tr>
<tr>
<td><strong>Uncut Circle</strong></td>
</tr>
<tr>
<td><strong>Number of Blades</strong></td>
</tr>
<tr>
<td><strong>Blade Length</strong></td>
</tr>
<tr>
<td><strong>Nose Roller</strong></td>
</tr>
<tr>
<td><strong>Seat</strong></td>
</tr>
<tr>
<td><strong>Hinged Arm Rests</strong></td>
</tr>
<tr>
<td><strong>Hour Meter</strong></td>
</tr>
<tr>
<td><strong>Blade Engagement</strong></td>
</tr>
<tr>
<td><strong>Deck Construction</strong></td>
</tr>
<tr>
<td><strong>Productivity</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weight</strong></td>
</tr>
<tr>
<td><strong>Base Machine Length</strong></td>
</tr>
<tr>
<td><strong>Base Machine Height</strong></td>
</tr>
<tr>
<td><strong>Base Machine Width</strong></td>
</tr>
<tr>
<td><strong>Overall Width, Chute Up</strong></td>
</tr>
<tr>
<td><strong>Overall Width, Chute Down</strong></td>
</tr>
<tr>
<td><strong>Overall Height, ROPS Up</strong></td>
</tr>
</tbody>
</table>

1) 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

<table>
<thead>
<tr>
<th>Component</th>
<th>SAE Grade 5</th>
<th>SAE Grade 8</th>
<th>Flangelock Screw w/Flangelock Nut</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine crankshaft bolt</td>
<td>50 ft/lb (67 Nm)</td>
<td>Standard ¼&quot; fasteners</td>
<td>9 ft/lb (12 Nm)</td>
</tr>
<tr>
<td>Deck pulley bolts</td>
<td>20 ft/lb (23 Nm)</td>
<td>Standard 5/16&quot; fasteners</td>
<td>18 ft/lb (25 Nm)</td>
</tr>
<tr>
<td>Lug nuts</td>
<td>75 ft/lb (100 Nm)</td>
<td>Standard 3/8&quot; fasteners</td>
<td>33 ft/lb (44 Nm)</td>
</tr>
<tr>
<td>Blade bolt</td>
<td>55 ft/lb (75 Nm)</td>
<td>Standard 7/16&quot; fasteners</td>
<td>52 ft/lb (70 Nm)</td>
</tr>
</tbody>
</table>

**Hex Head Cap Screws**

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

### U.S. Standard Hardware

<table>
<thead>
<tr>
<th>Size</th>
<th>SAE Grade 5 ft./lbs</th>
<th>SAE Grade 5 Nm</th>
<th>SAE Grade 8 ft./lbs</th>
<th>SAE Grade 8 Nm</th>
<th>Flangelock Screw w/Flangelock Nut ft./lbs</th>
<th>Flangelock Screw w/Flangelock Nut Nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼</td>
<td>9</td>
<td>12</td>
<td>13</td>
<td>18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/16</td>
<td>18</td>
<td>24</td>
<td>28</td>
<td>38</td>
<td>24</td>
<td>33</td>
</tr>
<tr>
<td>3/8</td>
<td>31</td>
<td>42</td>
<td>46</td>
<td>62</td>
<td>40</td>
<td>54</td>
</tr>
<tr>
<td>7/16</td>
<td>50</td>
<td>68</td>
<td>75</td>
<td>108</td>
<td></td>
<td></td>
</tr>
<tr>
<td>½</td>
<td>75</td>
<td>102</td>
<td>115</td>
<td>156</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9/16</td>
<td>110</td>
<td>150</td>
<td>165</td>
<td>224</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/8</td>
<td>150</td>
<td>203</td>
<td>225</td>
<td>305</td>
<td></td>
<td></td>
</tr>
<tr>
<td>¾</td>
<td>250</td>
<td>339</td>
<td>370</td>
<td>502</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/8</td>
<td>378</td>
<td>513</td>
<td>591</td>
<td>801</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 1/8</td>
<td>782</td>
<td>1060</td>
<td>1410</td>
<td>1912</td>
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<td></td>
</tr>
</tbody>
</table>

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

### Metric Standard Hardware

<table>
<thead>
<tr>
<th>Size</th>
<th>Grade 8.8 ft./lbs</th>
<th>Grade 8.8 Nm</th>
<th>Grade 10.9 ft./lbs</th>
<th>Grade 10.9 Nm</th>
<th>Grade 12.9 ft./lbs</th>
<th>Grade 12.9 Nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>M4</td>
<td>1.5</td>
<td>2</td>
<td>2.2</td>
<td>3</td>
<td>2.7</td>
<td>3.6</td>
</tr>
<tr>
<td>M5</td>
<td>3</td>
<td>4</td>
<td>4.5</td>
<td>6</td>
<td>5.2</td>
<td>7</td>
</tr>
<tr>
<td>M6</td>
<td>5.2</td>
<td>7</td>
<td>7.5</td>
<td>10</td>
<td>8.2</td>
<td>11</td>
</tr>
<tr>
<td>M7</td>
<td>8.2</td>
<td>11</td>
<td>12</td>
<td>16</td>
<td>15</td>
<td>20</td>
</tr>
<tr>
<td>M8</td>
<td>13.5</td>
<td>18</td>
<td>18.8</td>
<td>25</td>
<td>21.8</td>
<td>29</td>
</tr>
<tr>
<td>M10</td>
<td>24</td>
<td>32</td>
<td>35.2</td>
<td>47</td>
<td>43.5</td>
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<tr>
<td>M12</td>
<td>43.5</td>
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<td>62.2</td>
<td>83</td>
<td>75</td>
<td>100</td>
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<tr>
<td>M14</td>
<td>70.5</td>
<td>94</td>
<td>100</td>
<td>133</td>
<td>119</td>
<td>159</td>
</tr>
<tr>
<td>M16</td>
<td>108</td>
<td>144</td>
<td>147</td>
<td>196</td>
<td>176</td>
<td>235</td>
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<tr>
<td>M18</td>
<td>142</td>
<td>190</td>
<td>202</td>
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<td>323</td>
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<td>275</td>
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<td>M22</td>
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<td>368</td>
<td>390</td>
<td>520</td>
<td>471</td>
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<td>M24</td>
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<td>664</td>
<td>596</td>
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<td>M27</td>
<td>530</td>
<td>707</td>
<td>474</td>
<td>996</td>
<td>904</td>
<td>1205</td>
</tr>
</tbody>
</table>
USA requirements
Labels are placed on the engine and/or in the engine compartment stating that the machine will fulfill the requirements. This is also applicable to special requirements for any of the states, (California emission rules etc.). Do not remove any of these labels.
Certificates can also be supplied with the machine at delivery or written in the Engine manual. Take care of these valuable documents.
<table>
<thead>
<tr>
<th>Action</th>
<th>Date, mtr reading, stamp, sign</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Delivery Service</strong></td>
<td></td>
</tr>
<tr>
<td>Charge the battery</td>
<td></td>
</tr>
<tr>
<td>Adjust the tire pressure of all wheels to 15 PSI (1 bar)</td>
<td></td>
</tr>
<tr>
<td>Mount the steering controls in the normal position</td>
<td></td>
</tr>
<tr>
<td>Connect the contact box to the cable for the seat’s safety switch</td>
<td></td>
</tr>
<tr>
<td>Check that the right amount of oil is in the engine</td>
<td></td>
</tr>
<tr>
<td>Adjust the position of the steering controls</td>
<td></td>
</tr>
<tr>
<td>Fill with fuel and open the fuel shut off valve</td>
<td></td>
</tr>
<tr>
<td>Start the engine</td>
<td></td>
</tr>
<tr>
<td>Check that there is drive to both wheels</td>
<td></td>
</tr>
<tr>
<td>Check the mower deck adjustment</td>
<td></td>
</tr>
<tr>
<td>Check:</td>
<td></td>
</tr>
<tr>
<td>Safety switch for the parking brake</td>
<td></td>
</tr>
<tr>
<td>Safety switch for the mower deck</td>
<td></td>
</tr>
<tr>
<td>Safety switch in the seat</td>
<td></td>
</tr>
<tr>
<td>Safety switch in the steering controls</td>
<td></td>
</tr>
<tr>
<td>Parking brake functionality</td>
<td></td>
</tr>
<tr>
<td>Driving forward</td>
<td></td>
</tr>
<tr>
<td>Driving backward</td>
<td></td>
</tr>
<tr>
<td>Engaging the blades</td>
<td></td>
</tr>
<tr>
<td>Check engine high idle speed</td>
<td></td>
</tr>
<tr>
<td>Inform the customer about:</td>
<td></td>
</tr>
<tr>
<td>Need and advantages of following the service schedule</td>
<td></td>
</tr>
<tr>
<td>Need and advantages of leaving the machine for service</td>
<td></td>
</tr>
<tr>
<td>Effects of service and maintaining a service journal</td>
<td></td>
</tr>
<tr>
<td>on the machine’s resale value</td>
<td></td>
</tr>
<tr>
<td>Application areas for mulching</td>
<td></td>
</tr>
<tr>
<td>Fill in the sales papers, etc</td>
<td></td>
</tr>
<tr>
<td>Delivery service has been carried out.</td>
<td></td>
</tr>
<tr>
<td>No remaining notes.</td>
<td></td>
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<td>Certified:</td>
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</table>
## After 10 hours
- Change the engine oil
- Inspect hydraulic hoses
- Inspect hydraulic belt
- Inspect hydraulic filter
- Check neutral position
- Check safety system
- Check seat belt
- Check fuel system for leaks
- Inspect safety guards and shields
- Check brake adjustment

## Daily Service
- Clean debris from mower
- Check engine oil level
- Check the tire pressures
- Check underside of deck
- Inspect deck pulleys
- Check/clean the engine's cooling air intake
- Check safety system
- Check seat belt
- Check fuel system for leaks
- Inspect safety guards and shields
- Check brake adjustment
<table>
<thead>
<tr>
<th>Action</th>
<th>Date, mtr reading, stamp, sign</th>
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</thead>
<tbody>
<tr>
<td><strong>50-Hour Service</strong></td>
<td></td>
</tr>
<tr>
<td>Check the fuel pump’s air filter</td>
<td>☐</td>
</tr>
<tr>
<td>Sharpen/Replace mower blades if required</td>
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<tr>
<td>Check the tire pressures</td>
<td>☐</td>
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<tr>
<td>Check battery and cables</td>
<td>☐</td>
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<tr>
<td>Lubricate according to lubrication chart</td>
<td>☐</td>
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<tr>
<td>Check/clean the engine’s cooling air intake</td>
<td>☐</td>
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<tr>
<td>Clean the air cleaner’s foam pre-filter</td>
<td>☐</td>
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</tbody>
</table>
# SERVICE JOURNAL

<table>
<thead>
<tr>
<th>Action</th>
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<tbody>
<tr>
<td><strong>250-Hour Service</strong></td>
<td></td>
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<tr>
<td>Grease fittings (caster pivots and caster wheels)</td>
<td></td>
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<tr>
<td>Inspect dampeners</td>
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<tr>
<td>Inspect frame</td>
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<tr>
<td>Inspect throttle cable</td>
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<tr>
<td>Inspect hardware</td>
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<td>Check the tire pressures</td>
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<td>Change the engine oil and filter</td>
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<tr>
<td>Change air filter</td>
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<td>Inspect spark plug</td>
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<tr>
<td>Inspect fuel filter</td>
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<tr>
<td>Check engine RPM</td>
<td></td>
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<tr>
<td>Clean underside of deck</td>
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<tr>
<td>Check blade pitch</td>
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<tr>
<td>Grease blade spindles</td>
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<tr>
<td>Inspect spindle bearings</td>
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<tr>
<td>Inspect deck belt and blades</td>
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<tr>
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<td>Inspect deck idler pulleys</td>
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<td>Inspect hydraulic drive belt</td>
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<td>Check neutral position</td>
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<td>Inspect battery connections</td>
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<td>Inspect battery connections</td>
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<tr>
<td>Load test battery</td>
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<td>Clean electrical connections</td>
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<tr>
<td>Inspect the clutch</td>
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<td><strong>At least once each year</strong></td>
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<tr>
<td>Clean the engine’s cooling air intake.</td>
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<tr>
<td>Replace the air cleaner’s pre-filter (foam).</td>
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<tr>
<td>Replace the air filter’s paper cartridge.</td>
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<td>Change the engine oil.</td>
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<td>Check/adjust the cutting height</td>
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<tr>
<td>Check/adjust the parking brake</td>
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<tr>
<td>Clean/change the spark plugs</td>
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<td>Check the engine valve clearance</td>
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