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You can read the recommendations in the user guide, the technical guide or the installation guide for HUSQVARNA RZ4619. You'll find the answers to all your questions on the HUSQVARNA RZ4619 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual HUSQVARNA RZ4619**  
**User guide HUSQVARNA RZ4619**  
**Operating instructions HUSQVARNA RZ4619**  
**Instructions for use HUSQVARNA RZ4619**  
**Instruction manual HUSQVARNA RZ4619**



**Operator Manual**

**RZ4619 CA / 966503401**

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



English



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**Manual abstract:**

*The use of other parts voids the warranty. @@@@All rights reserved. Beatrice, NE. Printed in U.S.A. Contents INTRODUCTION...*

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from liability for any resulting personal injury or property damage. General In this operator's manual, left and right, backward and forward are used in relation to the machine's normal driving direction. Continuous dedication to improve our products require that specifications and design are subject to change without notice. Driving and Transport on Public Roads Check applicable road traffic regulations before transporting on public roads.

If the machine is transported, you must always use approved fastening equipment and ensure that the machine is well anchored. DO NOT operate this machine on public roadways. 5 INTRODUCTION Good Service Husqvarna 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's manual. When you need spare parts or support in service questions, warranty issues, etc., please consult the following professional: This Parts Manual belongs to the machine with the manufacturing number: Engine 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. 6 symbols and decals These symbols are found on the machine and in the operator's manual. Study them carefully so that you know what they mean.



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**WARNING!** XXXX XXXXX XXXX XXX XXXXXXXX XXXXX XXXXXXXX. XX XXXXXXX XXX XXXXX. Used in this publication to notify the reader of a risk of personal injury or death, particularly if the reader should neglect to follow instructions given in the manual. **IMPORTANT INFORMATION** XXXX XXXXXX XXXX XXXX XXXXXXXX XXXXX XXXXXXXX. XX XXXXXXX XXX XXXXX. 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. R N Reverse Neutral Fast Slow Choke Fuel Warning! Parking Brake CE conformity marking. Only for European market Warning! Rotating blades, keep away from the discharge deck Do not touch parts B attery acid is corrosive, explosive and flammable Do not stand here Noise emissions to the surroundings in accordance with the European Union's directive.

The machine's emission is stated in the chapter **TECHNICAL DATA** and on the decals. Only machines for Eue exhaust contains carbon monoxide, which is a odorless, colorless, poisonous gas. Do not use the machine in enclosed spaces. ••10 **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. Al Remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, refuel such equipment with a portable container, rather than from a gasoline dispenser nozzle. • Keep the nozzle in contact with the rim of the fuel tank or container opening at all times until fueling is complete. Do not use a nozzle lock-open device. • If fuel is spilled on clothing, change clothing immediately. • Never overfill fuel tank. Replace gas cap and tighten securely. • Do not start the engine near spilled fuel. • Never use gasoline as a cleaning agent. • If leaks arise in fuel system, engine must not be started until problem has been resolved. • Check the fuel level before each use and leave space for the fuel to expand, as the heat from the engine and the sun may otherwise cause the fuel to expand and overflow. 8011-516 Never fill the fuel tank indoors **WARNING!** The engine and the exhaust system become very hot during operation. There is risk for burns if touched. Allow engine and exhaust system to cool at least two (2) minutes before refueling. 13 **SAFETY** General Maintenance •••• Never operate machine in a closed area. Keep all nuts and bolts tight to be sure the equipment is in safe working condition. Never tamper with safety devices. Check their proper operation regularly. Keep machine free of grass, leaves, or other debris buildup. Clean oil or fuel spillage and remove any fuel-soaked debris. Allow machine to cool before storing. If you strike a foreign object, stop and inspect the machine.

Repair, if necessary, before restarting. Never make any adjustments or repairs with the engine running. Check grass catcher components and the discharge guard frequently and replace with manufacturer's recommended parts, when necessary. Mower blades are sharp. Wrap the blade or wear gloves, and use extra caution when servicing them. Check brake operation frequently. Adjust and service as required. Maintain or replace safety and instruction labels, as necessary. Do not modify safety equipment. Check regularly to be sure it works properly.

The machine must not be driven with defective or unmounted protective plates, protective cowlings, safety switches, or other protective devices. Do not change the settings of governors and avoid running the engine with overly high engine speeds. If you run the engine too fast, you risk damaging the machine components. Be very careful when handling battery acid. Acid on skin can cause serious corrosive burns.

If you spill battery acid on your skin, rinse immediately with water. Acid in the eyes can cause blindness, contact a doctor immediately. Be careful when servicing the battery. Explosive gases form in the battery. Never perform maintenance on the battery when smoking or near open flames or sparks. The battery can explode and cause serious injury or damage. Ensure that nuts and bolts, especially the fastening bolts for the blade attachments, are properly tightened, torqued and that the equipment is in good condition. •••8011-515 Never drive the machine in an enclosed space • **WARNING!** Use protective glasses for maintenance work. •••• **WARNING!** The battery contains lead and lead compounds, chemicals that are considered to cause cancer, birth defects, and other reproductive system damage. Wash your hands after handling the battery. •••• 14 **SAFETY** Sparking can occur when working with the battery and the heavy cables of the starter circuit. This can cause battery explosion, fire or eye injury. Sparking in this circuit can not occur after the chassis cable (normally negative, black) is removed from the battery. **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. 6003-009 •••• Do not smoke when performing maintenance on the battery. The battery can explode and cause serious injury/damage.

••8009-728 Risk of sparking 15 **SAFETY** • The machine is tested and approved only with the equipment originally provided or recommended by the manufacturer. Only use approved repair parts for the machine. The blades are sharp and can cause cuts and gashes. Wrap the blades or use protective gloves when handling them. Check the parking brake's functionality regularly.

Adjust and service as necessary. The mulch blades should only be used in familiar areas when higher quality mowing is desired. Reduce the risk of fire by removing grass, leaves, and other debris that may have accumulated on the machine.



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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.

**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. •••••8011-514 Regularly clean deck Transport •The machine is heavy and can cause serious crushing injuries. Be extra cautious when it is loaded on or unloaded from a vehicle or trailer. Use an approved trailer to transport the machine. Activate the parking brake, turn off the fuel supply, and fasten the machine with approved fastening devices, such as bands, chains, or straps, when transporting. Do not operate this machine on public roadways. Check and abide by local traffic regulations before transporting the machine on any road. Do not tow this machine, it may cause damage to the drive system.

Do not tow any trailers, etc. with this mower. They may jackknife or overturn causing damage to the mower and possibly serious injury to the operator. Load the unit onto truck or trailer by driving up ramps of suitable strength using a slow speed. Do not lift! The machine is not intended to be lifted by hand.

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

• **16 CONTROLS** This operator's manual describes the Husqvarna Zero Turn Rider. The rider is fitted with four-stroke overhead valve engine. Transmission from the engine is made via a belt-driven hydraulic pumps. Using the left and right steering controls, the flow is regulated and thereby the direction and speed. Control Locations 5 4 3 2 1 6 8058-098 7 1.

2. 3. 4. 5. 6.

8 9 10 11 7. Hour meter 8. Throttle / choke control 9. Ignition switch 10. Blade switch 11. Seat adjustment lever 12. Deck lift 12 Steering control levers Parking brake Tracking adjustment Fuel tank cap Fuses Fuel shut off valve 17 **CONTROLS** Steering Control Levers @@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. @@@@Zero turn can be achieved by moving one control backward (behind the neutral position) and carefully moving the other steering control forward from its neutral position.

The rotation direction when zero turning is determined by which steering control is moved backward behind the neutral position. If the left steering control is pulled backward, the machine turns to the left. Use extra care when using this maneuver. If the steering controls are in uneven positions when standing still or do not fit in the slots for moving the controls outward, they can be adjusted. 8058-022 Steering controls **WARNING!** The machine can turn very rapidly if one steering control is moved much further forward than the other. 8011-7912a 1. Forward 2. Neutral 3. Neutral slot, Neutral lock 4. Reverse Motion control lever, right side 18 **CONTROLS** Parking Brake **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. The parking brake is found on the left of the machine. Push the release button and pull the lever backward to activate the brake—push forward to release it. 8058-092 Parking brake released Throttle Control The throttle control regulates the engine speed and thereby the rate of rotation of the blades, assuming the blade switch is pulled out, see Engaging the Mower Deck.

To increase or decrease the engine speed, the control is moved forward or back respectively. Avoid idling the engine for long periods, as there is a risk of fouling the spark plugs. **USE FULL THROTTLE WHEN MOWING**, for best mower performance and battery charging. 8055-095 Throttle control Blade Switch To engage the mower deck, pull the knob out; the mower blades are disengaged when the knob is depressed. 8058-095 Blade switch 19 **CONTROLS** Ignition Switch The ignition key is placed on the control panel and is used to start and stop the engine.

8058-095 Ignition switch Choke Control The choke control is used for cold starts to provide the engine with a richer fuel mixture. For cold starts the throttle should be set fully forward. 8052-001 Choke control Fuses Fuses are located on the left hand side of the machine. They are accessed by tilting the seat forward. They are flat pin fuses of the same type used in automobiles. There are two fuses with ratings and functions: 20 Amp Primary fuse 7.5 Amp Mower deck coupling 8011-420 Fuses 20 **CONTROLS** Fuel Tank Read the safety instructions before refueling. The machine has one fuel tank, located behind the left side of the seat. The tank capacity is 4 gallons (15.1 liters).

@@@Environmentally adapted alkylate gasoline can be used. See also Technical Data concerning ethanol fuel. Methanol fuel is not allowed. Do not use E85 alcohol based fuel. @@Gasoline is highly flammable. @@Acidic gas can damage the fuel system of an engine while in storage. @@@@Use fresh fuel the next season. See Storage Instructions for additional information. @@The engine and the exhaust system, become very hot during operation. Risk for burns if touched.

@@Fill to bottom of filler neck. Do not overfill. Wipe off any spilled oil or fuel. @@@@@@It will flash **CHG OIL (Change Oil)** at 50 hour intervals. @@The **CHG OIL** icon will come on and shut off automatically.

@@Recommended air pressure is 15 psi (103 kPa / 1 bar) for all tires. @@@@@@The left control lever controls the left wheel. The right control lever controls the right wheel. @@@@@@Slowly move both control levers forward slightly. This will allow mower to start moving forward in a straight line.

@@@@@@@We also suggest first time users, or new users to Zero Turn mowers to become familiar with the mower's movement on a hard surface, such as concrete or blacktop **PRIOR** to attempting to operate on turf. Until operator becomes comfortable with mower controls and zero turning capability, they may damage turf due to overly aggressive maneuvers. **IMPORTANT INFORMATION** When control levers are in the reverse position they return to neutral when released.



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This may cause the mower to suddenly stop. 24 operation Before Starting • Read the sections Safety Instructions and Controls before starting the machine. • Perform the daily maintenance before starting (see Maintenance Schedule in the Maintenance section). • Check that there is sufficient fuel in the fuel tank. • Adjust the seat to the desired position. The following conditions must be fulfilled before the engine can be started: • The blade switch for engaging the mower blades must be depressed. • The parking brake must be on.

• Both steering controls must be in the locked (outer) neutral position. 8058-100 Mower deck lifting lever Starting the Engine • Sit on the seat. Raise the mower deck by pushing the release button on the top of the lifting lever. Pull the lifting lever backward to the locked (transport) position. Activate the parking brake by pushing the release button in and pulling the lever fully upwards. • 8058-092 Pull parking brake upwards to activate. Disengage the mower blades by pressing the blade switch downwards. 8058-095 Blade switch 25 operation Move the steering controls outward to the locked (outer) neutral position. 8061-026 Place controls in neutral position Move the throttle to the middle position. 8058-096 Set the throttle If the engine is cold, the throttle control should be pushed forward to the choke position.

8058-097 Set the choke control 26 operation 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 approximately 10 seconds before retrying. 8050-780 Turn to the start position When the engine starts, immediately release the ignition key back to the run position. **WARNING!** Engine exhaust and certain vehicle components contain or emit chemicals considered to cause cancer, birth defects or other reproductive system damage.

The engine exhaust contains carbon monoxide, which is a odorless, colorless, poisonous gas. Do not use the machine in enclosed spaces. 8050-781 Return to run position Set the desired engine speed with the throttle. Allow the engine to run at a moderate speed, "half throttle" for 3-5 minutes before loading it too heavily. **USE FULL THROTTLE WHEN MOWING** (no choke).

If your battery is too weak to start the engine, it should be recharged. (See "Battery" in the Maintenance Section.) 8058-102 Set the engine speed 27 operation Weak Battery **WARNING!** Lead-acid batteries generate explosive gases. Keep sparks, flame and smoking materials away from batteries. Always wear eye protection when around batteries. **IMPORTANT INFORMATION** Your mower is equipped with a 12-volt negative grounded system. The other vehicle must also be a 12-volt negative grounded system. Do not use your mower to start other vehicles. If "jumper cables" are used for emergency starting, follow this procedure: Jumper Cables • Connect each end of the RED cable to the POSITIVE (+) terminal on each battery, taking care not to short against chassis. • Connect one end of the BLACK cable to the NEGATIVE (-) terminal of the fully charged battery.

• Connect the other end of the BLACK cable to a good CHASSIS GROUND on the mower with the discharged battery, away from the fuel tank and battery. To remove cables, reverse order • Remove BLACK cable first from chassis and then from the fully charged battery. • Remove RED cable last from both batteries. 8011-642 Jumper cable connection 28 operation Running 1. Release the parking brake by pushing the top release button in and moving the lever downward.

**NOTE:** The mower is equipped with an operator presence system. @@@@**WARNING!** Ensure that no one is near mower when engaging blade switch. @@@@7. Move throttle control to full throttle. @@@@**WARNING!** Do not drive up or down hills with slopes greater than 10 degrees. Do not drive across slopes. @@Avoid stopping or changing speed on hills. If stopping is absolutely necessary, pull steering controls into the neutral position and push to the outside of the unit. Engage the parking brake. **IMPORTANT INFORMATION** Control levers return to neutral when released.

This may cause the mower to suddenly stop. • 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. 8061-026 • Place controls in neutral position 30 operation Mowing Tips • Observe and flag rocks and other fixed objects to avoid collisions.

Begin with a high cutting height and reduce it until the desired mowing result is attained. The average lawn should be cut to 2½" (64 mm) during the cool season and over 3" (76 mm) during the hot months. For healthier and better looking lawns, mow often after moderate growth. For best cutting performance, grass over 6" (15 cm) in height should be mowed twice. Make the first cut relatively high, the second to the desired height. The mowing result will be best with a high engine speed (the blades rotate rapidly) and low speed (the rider moves slowly). If the grass is not too long and dense, the driving speed can be increased without negatively affecting the mowing result. The finest lawns are obtained by mowing often. The lawn becomes more even and the grass clippings more evenly distributed over the mown area. The total time taken is not increased as a higher operating speed can be used without poor mowing results.

Avoid mowing wet lawns. The mowing result is poorer because the wheels sink into the soft lawn, clumps build, and the grass clippings fasten under the cowl. Hose the mower deck underside with water after each use. When cleaning, the mower deck shall be raised into the transport position. Make sure the mower is cooled and the engine is off. Use compressed air to clean top surface of the deck. Avoid flooding water on top surface, engine and electrical components. When the mulching kit is used, it is important that the mowing interval is frequent. **WARNING!** Clear the lawn of stones and other objects that can be thrown out by the blades. • • 8011-603 Mowing pattern • **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. • 31 operation Stopping the Engine If the engine has been worked hard, allow it to idle for approximately one minute in order to attain normal operating temperature before stopping. Avoid idling the engine for longer periods, as there is a risk of the spark plugs fouling. • Disengage the mower deck by depressing the blade switch.

8058-095 Disengage the mower deck and move the throttle to minimum • Raise the mower deck by pressing the release button on the lever and pulling fully backward to the transport position. • When the machine is standing still, activate the parking brake by pushing the lever release button and pulling the lever upward.



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8058-100 Mower deck lifting lever ••• Move the throttle to the minimum position (tortoise symbol). Turn the ignition key to the stop position. Move the steering controls outward.

Remove key. Always remove key when leaving the mower to prevent unauthorized use. **IMPORTANT INFORMATION** Leaving the ignition switch in any other position than "OFF" will cause the battery to be discharged. 8058-077 Place controls in neutral position to stop 32 operation Manual Transport When pushing or pulling the mower, engage the EZT (Integrated ZeroTurn Transaxle) bypass linkages. The EZT bypass linkages are located on the rear of the frame, below the rear engine guard. 1. Raise the deck into the highest cutting position. 2. Pull the EZT bypass linkages up and out of the keyhole slots. Release the levers with the head outside the frame and held in the bypass position.

3. To reengage the EZT's 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. 8058-032 Bypass linkage, EZT engaged **WARNING!** Make no adjustments without: ••• the engine stopped, the ignition key removed, the parking brake activated 8058-033 Bypass linkage, EZT locked in the bypass position 33 **MAINTENANCE** Maintenance Schedule The following is a list of maintenance procedures that must be performed on the machine. For those points not described in this manual, visit an authorized service workshop. An annual service carried out by an authorized service workshop is recommended to maintain your machine in the best possible condition and to ensure safe operation. Read "Maintenance" in the Safety Instructions section. 1) First change after 5-8 hours. When operating with a heavy load or at high ambient temperatures, replace every 50 hours.

2) In dusty conditions, cleaning and replacement are required more often. 3) For daily use, the machine should be lubricated twice weekly. 4) Performed by authorized service workshop. Daily **MAINTENANCE** Check the parking brake Check the engine's oil level (every refueling) Check the safety system Check for fuel and oil leakages Check/clean the engine's cooling air intake Check the mower deck Check for loose hardware (screws, nuts) Clean under the mower deck Start the engine and blades, listen for unusual sounds Check for damage Thoroughly clean around the engine Clean around belts, belt pulleys Check the tire pressures Check battery connections Sharpen3)/ Replace mower blades Clean the engine's cooling air intake 2) Clean the air cleaner's pre-filter 2) (foam) Clean the air cleaner's filter cartridge 2) (paper filter) Check/adjust the parking brake Inspect muffler/spark arrester 1) Before After At least once each year Maintenance interval in hours 25 50 100 300 □ □ □ ◆ □ □ □ ◆ ◆ ◆ ◆ □ □ □ ◆ □ □ □ □ □ ◆ ◆ 2) First change after 8-10 hours. When operating with a heavy load or at high ambient temperatures, replace every 50 hours.

conditions, cleaning and replacement are required more often. 3) Performed by authorized service workshop. In dusty □ = Described in this manual ◆ = Not described in this manual □ = Refer to the engine manufacturer's manual 34 **MAINTENANCE** Daily At least once each year Maintenance interval in hours 25 50 100 300 **MAINTENANCE** Check/adjust throttle cable Check the condition of belts, belt pulleys Change the engine oil 1) Before After Replace the engine oil filter Clean/replace the spark plugs Replace the fuel filter Replace air filter 2) (paper filter) Check the caster wheels (every 200 hours) Replace the air cleaner's pre-filter 2) (foam) Check/adjust the mower deck Check the engine valve clearance 3) Perform the 300-hour service 3) 1) □ □ □ □ □ □ □ □ □ ◆ ◆ □ □ □ □ □ □ □ □ □ ◆ ◆ 2) First change after 5-8 hours. When operating with a heavy load or at high ambient temperatures, replace every 50 hours. conditions, cleaning and replacement are required more often.

3) Performed by authorized service workshop. In dusty □ = 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. • Disconnect the spark plug wire from all spark plugs and place the wire where it cannot come in contact with the plug. 35 **MAINTENANCE** Battery Your mower is equipped with a maintenance free battery and does not need servicing. However, periodic charging of the battery with an automotive type battery charger will extend its life. **STANDARD BATTERY STATE OF CHARGE 12.6V 12.**

4V 12.2V 12.0V 11.8V 100% 75% 50% 25% 0% 50 Amps **APPROXIMATE BATTERY CHARGING TIME\* TO FULL CHARGE AT 80OF / 27OC** Maximum Rate at: 30 Amps 20 Amps 10 Amps - **FULL CHARGE** 20 min. 45 min. 65 min. 85 min. 35 min. 75 min. 115 min. 150 min. 48 min. 95 min. 145 min. 195 min. 90 min. 180 min. 280 min. 370 min. • Keep battery and terminals clean.

• Keep battery bolts tight. • See chart for charging times. **WARNING!** Always wear eye protection when around batteries. \*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. Cleaning battery and terminals Corrosion and dirt on the battery and terminals can cause the battery to "leak" 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. Using two 1/2" wrenches disconnect **BLACK** battery cable then **RED** battery cable. 3. Position deck to lowest setting.

4. Front underside of frame, remove the nuts that secure the battery hold-down. 5. Carefully remove the battery from the mower. 6. Install new battery with terminals in the same position as the old battery. 7. Reinstall battery hold-down and secure with nuts removed in Step 4. 8. Reconnect **RED** battery cable to positive (+) battery terminal with bolt and hex nut. 9. Connect **BLACK** grounding cable to negative (-) battery terminal with remaining hex bolt and hex nut 10. Replace terminal boot cover. 11. Lower seat 36 **WARNING!** Do not short battery terminals by allowing a wrench or any other object to contact both terminals at the same time.



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Before connecting battery, remove metal bracelets, wristwatch bands, rings, etc. Positive terminal must be connected first to prevent sparks from accidental grounding. 8050-109 Remove battery hold-down to replace battery 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: 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 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 drivers seat. 8058-026 Steering controls locked in neutral IMPORTANT INFORMATION To be able to drive, the driver must sit in the seat and release the parking brake before the steering controls can be moved into the neutral position, otherwise the engine will stop.

Tire Pressures All tires should be at 15 psi / 103 kPa / 1 bar. 8011-564 Check tire pressures 37 MAINTENANCE Parking Brake Visually check that no damage is found on the lever, linkages, or switch belonging to the parking brake. Perform a standstill test and check that there is sufficient braking action. To adjust the parking brake, contact the Husqvarna service workshop. IMPORTANT INFORMATION The machine must be absolutely standing still when applying the parking brake.

WARNING! Faulty adjustment will result in reduced braking ability and can cause an accident. 8058-095 Parking brake Pump Belt Replacing EZT (E-Series Zereturn Transaxle) belt Park the mower on a level surface. Engage the parking brake. EZT Belt Removal NOTE: To maintain efficient cooling and not damage the EZTs, be careful of the fan blades when servicing the belt. • Remove the deck belt (see Deck Belt Removal in this section of the manual). • Create slack in the belt by removing the spring on the pump idler arm. • The belt should now be able to be removed from the engine pulley and EZT pulleys. EZT Belt Installation • Wrap the EZT belt around the EZT pulleys • Route the belt around the inside of the idler pulley. • Wrap the belt around the engine pulley. • Reattach the spring on the pump idler arm.

• Install clutch onto engine shaft (pulley side down), making sure key is installed. Align the clutch anti-rotation tab into slot on clutch. Secure clutch, install wire. • Reinstall the deck belt onto the electric clutch (see Deck Belt Removal in this section of the manual). 38 MAINTENANCE V-belts Check every 100 hours of operation. Check for severe cracking and large nicks. NOTE: The belt will show some small cracks in normal operation. The belts are not adjustable. Replace belts if they begin to slip from wear. Deck Belt 1.

Park on a level surface. Apply parking brake. 2. Lower the deck into the lowest cutting position. 3.

Remove bolts from belt shields and remove shields. 4. Remove any dirt or grass that may have accumulated around the cutter housings and entire deck surface. 5. Loosen the nut securing the belt guide.

Note the position of the belt guide for reinstallation. 6. Carefully roll the belt over the top of the cutter housing pulleys and remove belt from the deck. 1 2 3 1 8058-107 1. Belt shields 2. Belt guide 3. Idler arm Removing the deck belt Deck belt installation NOTE: For ease in installing the deck belt, refer to the routing decal on the top of the deck. 1. Wrap the deck belt around the electric clutch pulley that is located on the engine shaft. 2.

Route the belt forward and up onto the deck. 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 tension belt. 6. Double check belt routing to make sure it matches the decal affixed to the deck, and the belt does not have any twist.

Correct as needed. 7. Tighten the belt guide and replace belt shields on both mandrel housings and secure with fasteners. NOTE: The belt guide should be perpendicular to the belt when installation is complete. 8058-108 Belt routing 39 MAINTENANCE Cutting Blades For the best mowing results, it is important that the blades are well sharpened and not damaged.

Bent or cracked blades or blades with large nicks should be replaced. IMPORTANT INFORMATION The sharpening of blades should be carried out by an authorized service workshop. Damaged blades should be replaced when hitting obstacles that result in a breakdown. Let the service workshop decide whether the blade can be repaired/ ground or must be replaced. Balance the blades after sharpening.

Check the blade mounts. 8011-604-1 Check the blades WARNING! Blades are sharp. Protect your hands with gloves and/or wrap blades with a heavy cloth when handling. 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 cutter housing. 3. Install and tighten blade bolt securely. 4.

Torque blade bolt to 90 ft/lbs (122 Nm). 3 1 2 IMPORTANT INFORMATION Special blade bolt is heat treated. Replace with a Husqvarna bolt if required. Do not use lower grade hardware than specified. 8058-027 1. Blade 2. Blade bolt (special) 3. Cutter housing Blade attachment 40 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 "Technical Data" under Transmission.

If tires are under or over inflated, the deck cannot be properly adjusted. 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 align with the deck or in a side-to-side manner. 2. Measure from the floor surface up to the bottom of the blade tip on the discharge side of the mower deck. Retain this measurement. 3.

Move to the opposite side, check that measurement is the same. If adjustment is required—with a 3/4" or adjustable wrench, turn the lift link adjustment nuts on either side counter clockwise to lower or clockwise to raise. Adjust until both side-to-side measurements are equal. 8058-030 Lift link adjustment nut 4. Turn any blade to align with the deck in front-to-rear manner. If the front blade tip does not measure 1/8" to 1/2" higher in the rear, follow the front adjustment instructions that follow.



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5. With a 5/8 or adjustable wrench, turn the nuts on the front suspension linkage. Clockwise raises the front of the mower, counterclockwise will lower the front. Adjust nuts until rear of mower deck is positioned level to 1/8" higher in the rear than the side-to-side measurement.

*NOTE: This will place the mower deck in a base measurement position. Additional adjustment may be required to achieve desired cut for the type of grass or conditions being mowed. 8058-031 Deck front adjustment nuts 41 MAINTENANCE Anti-scalp rollers Anti-scalp rollers are properly adjusted when they are just slightly off of the ground when the deck is at the desired cutting height in the operating position. Anti-scalp rollers then keep the deck in the proper position to help prevent scalping in most terrain conditions. IMPORTANT INFORMATION Adjust anti-scalp rollers with the mower on a flat level surface. The anti-scalp rollers can be set in three positions: • Upper position 1½ to 2½" (38 to 64 mm) grass • Middle position 2½" to 4" (64 to 102 mm) grass • Lower position 4" to 6" (102 to 128 mm) grass. The rollers should be approximately ¼" (6.5 mm) from ground. Do not adjust the rollers to support the deck. 8050-830 Anti-scalp rollers IMPORTANT INFORMATION The anti-scalp rollers must not be used for gauge wheels or the roller and deck may be damaged. 42 MAINTENANCE Cleaning Regular cleaning and washing, especially under the mower deck, will increase the machine's life-span. Make it a habit to clean the machine directly after use (after it is cooled), before the dirt sticks. Do not spray water on the top of the mower deck. Use compressed air to clean the top side of mower deck. Regularly clean deck and underside of the deck with normal water pressure. Do not use a high pressure washer or steam cleaner. Avoid spraying engine and electrical components with water Do not rinse hot surfaces with cold water. Let unit cool before washing. IMPORTANT INFORMATION Use protective glasses when cleaning and washing. Caster Wheels Check every 200 hours. Check that wheels rotate freely. If wheels do not rotate freely take the unit to your dealer for service. Foam filled tires or solid tires will void the warranty. IMPORTANT INFORMATION DO NOT add any type of tire liner or foam fill material to the tires. Excessive loads created by foam filled tires will cause premature failures. Only use O.E.M. specified tires. Removal and installation of caster wheel Remove nut and caster bolt.*

*Pull the wheel out of the yoke and take care of the spacers. Install in reverse order. Tighten caster bolt. 8011-619-4 2 1 4 3 Hardware Check daily. Inspect the entire machine for loose or missing hardware. 1. Caster yoke 2. Caster bolt 3. Caster long spacer 4. Caster small spacers Caster wheels 43 LUBRICATION Lubrication Schedule 8058-105 12/12 Every year 1/52 Every Week 1/365 Every day Lubricate with grease gun Oil change Filter change Lubricate with oil can 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 a 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. 44 LUBRICATION Front Wheel Mount Lubricate with a grease gun, one zerk for each wheel mount, until the grease is forced out. Use only good quality bearing grease.*

*Grease from well-known brand names (petrochemical companies) usually maintains a good quality. Front Wheel Bearings Lubricate with a grease gun, one zerk for each set of wheel bearings, until the grease is forced out. Use only good quality bearing grease. 8058-068 Lubricating the front wheels IMPORTANT INFORMATION Use minimal lubrication and remove excess lubricant so that it does not come into contact with belts or belt pulley drive surfaces. Deck Spindles Lower the cutting deck completely. Lubricate with a grease gun, 2-3 strokes per spindle. 8058-106 Deck spindle Transmission The transmission is maintenance free with no need for level checks or oil changes. If a leak occurs, replace the unit or contact your Husqvarna dealer. 45 TROUBLESHOOTING Problem Engine will not start Cause •••••••• Starter does not turn the engine over ••••• Engine runs rough ••••••••• Engine seems weak ••••• Machine vibrates ••• 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 or the shutoff valve for the fuel tank is in the wrong position Clogged fuel filter or fuel line Ignition system faulty Battery is dead Poor contact of the battery terminal cable connections Blown fuse Fault in the starter safety circuit. See Checking the Safety System in the "Maintenance Section" Faulty carburetor Choke control is pulled out with a warm engine Clogged fuel filter or jet 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 Clogged air filter Fouled spark plugs Carburetor incorrectly adjusted Air trapped in hydraulic system Blades are loose Blades are incorrectly balanced Engine is loose 46 TROUBLESHOOTING Problem Engine overheats Cause •••••••• Battery not charging The machine moves slowly, unevenly, or not at all •••••••• Mower deck not engaging ••••• Transaxle leaks oil Uneven mowing results •••••••• 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 carburetor or fuel line. Fouled spark plugs Poor contact of the battery terminal cable connections Charging lead is disconnected Parking brake on Bypass valve on pump open Drive belt for the transmission slack or has come off Air trapped in hydraulic system Drive belt for the mower deck has come loose Contact for the electromagnetic coupling has loosened Blade switch is faulty or has come loose from cable contact Blown fuse Damaged seals, housing, or gaskets Air trapped in hydraulic system Different air pressure in tires on the left and right sides.*



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q Action Date, mtr reading, stamp, sign 25-Hour Service Check the fuel pump's air filter. Sharpen/Replace mower blades if required. Check the tire pressures. Check battery with cables. Lubricate according to lubrication chart. Check/clean the engine's cooling air intake.

Clean the air cleaner's pre-filter (foam). q q q q q q 55 SERVICE JOURNAL Action Date, mtr reading, stamp, sign 50-Hour Service Perform the 25-hour service. Clean/replace the air cleaner's filter cartridge (paper filter (shorter intervals for dusty operating conditions). Change engine oil. Lubricate according to lubrication chart. Check/adjust the parking brake. q q q q q Action Date, mtr reading, stamp, sign 100-Hour Service Perform the 25-hour service. Perform the 50-hour service. Change the engine oil filter. Clean/replace the spark plugs.

Replace the fuel filter. Check V-belts. Check/tighten caster wheel axle bolts (every 200 hours). Change the air filter's paper cartridge. q q q q q q 56 SERVICE JOURNAL Action Date, mtr reading, stamp, sign 300-Hour Service Perform the 25-hour service.

Perform the 50-hour service. Perform the 100-hour service. Check/adjust the mower deck. Clean the combustion chamber and grind the valve seats. Check the engine valve clearance.

Replace the air cleaner's pre-filter (foam). q q q q q q Action Date, mtr reading, stamp, sign At Least Once Each Year Clean the engine's cooling air intake (25 hours). Replace the air cleaner's pre-filter (foam) (300 hours). Replace the air filter's paper cartridge. Change the engine oil (50 hours). Replace the engine oil filter (100 hours). Check/adjust the cutting height. Check/adjust the parking brake (50 hours). Clean/Change the spark plugs (100 hours). Change the fuel filter (100 hours).

Check the engine valve clearance. q q q q q q q q 57 SERVICE JOURNAL Action Date, mtr reading, stamp, sign 58 P/N 115 314727R1 01/19/10 .



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