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You can read the recommendations in the user guide, the technical guide or the installation guide for HUSQVARNA 87521 RES. You'll find the answers to all your questions on the HUSQVARNA 87521 RES in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual HUSQVARNA 87521 RES
User guide HUSQVARNA 87521 RES
Operating instructions HUSQVARNA 87521 RES
Instructions for use HUSQVARNA 87521 RES
Instruction manual HUSQVARNA 87521 RES

 **Husqvarna**



87521 RES

Owner's Manual

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Manual abstract:

It means CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED. @@@@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. SAFETY RULES •••••••••• Stop the blade(s) when crossing gravel drives, walks, or roads. Stop the engine (motor) whenever you leave the equipment, before cleaning the mower or unclogging the chute. Shut the engine (motor) off and wait until the blade comes to complete stop before removing grass catcher. Mow only in daylight or good artificial light. Do not operate the machine while under the influence of alcohol or drugs. Never operate machine in wet grass. Always be sure of your footing: keep a firm hold on the handle and walk; never run.

Disengage the self-propelled mechanism or drive clutch on mowers so equipped before starting the engine (motor). If the equipment should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble. Always wear safety goggles or safety glasses with side shields when operating mower. II.

SLOPE OPERATION Slopes are a major factor related to slip and fall accidents which can result in severe injury. All slopes require extra caution. If you feel uneasy on a slope, do not mow it. DO: • Mow across the face of slopes: never up and down. Exercise extreme caution when changing direction on slopes. • Remove obstacles such as rocks, tree limbs, etc. • Watch for holes, ruts, or bumps. Tall grass can hide obstacles. DO NOT: • Do not trim near drop-offs, ditches or embankments. The operator could lose footing or balance. • Do not trim excessively steep slopes. • Do not mow on wet grass. Reduced footing could cause slipping. CAUTION: Muffler and other engine parts become extremely hot during operation and remain hot after engine has stopped. To avoid severe burns on contact, stay away from these areas.

I. GENERAL OPERATION • Read, understand, and follow all instructions on the machine and in the manual(s) before starting. Be thoroughly familiar with the controls and the proper use of the machine before starting. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times. Only allow responsible individuals, who are familiar with the instructions, to operate the machine. Clear the area of objects such as rocks, toys, wire, bones, sticks, etc., which could be picked up and thrown by the blade. Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.

Do not operate the mower when barefoot or wearing open sandals. Always wear substantial foot wear. Do not pull mower backwards unless absolutely necessary. Always look down and behind before and while moving backwards. Never direct discharged material toward anyone.

Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blade when crossing gravel surfaces. Do not operate the mower without proper guards, plates, grass catcher or other safety protective devices in place. See manufacturer's instructions for proper operation and installation of accessories.

Only use accessories approved by the manufacturer. 2 •••••••• III. CHILDREN Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. Never assume that children will remain where you last saw them. • Keep children out of the trimming area and under the watchful care of another responsible adult. • Be alert and turn machine off if children enter the area. • Before and while walking backwards, look behind and down for small children. • Never allow children to operate the machine. • Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

IV. SAFE HANDLING OF GASOLINE 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 an approved container. • Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. •••••••• Never refuel the machine indoors. Never store the machine or fuel container where there is an open flame, spark or pilot light such as a water heater or on other appliances. Never fill containers inside a vehicle, on a truck or trailer bed with a plastic liner.

Always place containers on the ground away from your vehicle before filling. Remove gas-powered equipment from the truck or trailer and refuel it on the ground. If this is not possible, then 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. Never run a machine inside a closed area. Never make adjustments or repairs with the engine (motor) running.

Disconnect spark plug wire, and keep •••••••• V. GENERAL SERVICE •• wire away from plug to prevent accidental starting. Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition. Never tamper with safety devices. Check their proper operation regularly. Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage. Allow machine to cool before storing. Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.

Never attempt to make wheel height adjustments while the engine (motor) is running. Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary. Mower blade is sharp and can cut. Wrap the blade or wear gloves, and use extra caution when servicing it. Do not change the engine governor setting or overspeed the engine. Maintain or replace safety and instruction labels, as necessary. WARNING: This lawn mower is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. A spark arrester for the muffler is available through your nearest authorized service center.



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CONGRATULATIONS on your purchase of a new lawn mower. It has been designed, engineered and manufactured to give you the best possible dependability and performance. Should you experience any problem you cannot easily remedy, please contact your nearest authorized service center/department. We have competent, well-trained technicians and the proper tools to service or repair this lawn mower. Please read and retain this manual.

The instructions will enable you to assemble and maintain your lawn mower properly. Always observe the "SAFETY RULES". SERIAL NUMBER: _____ DATE OF PURCHASE: _____ THE MODEL AND SERIAL NUMBERS WILL BE FOUND

ON A DECAL ATTACHED TO THE REAR OF THE LAWN MOWER HOUSING. YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE. PRODUCT SPECIFICATIONS Gasoline Capacity and Type: Oil Type (API SG-SL): Oil Capacity: Spark Plug (Gap): .

030"): Blade Bolt Torque: 1.6 Quarts (Unleaded Regular Only) SAE 30 (above 32°F); SAE 5W-30 (below 32°F) 20 Ounces Champion RC12YC 35-40 ft. lbs. (47-54 N-m) CUSTOMER RESPONSIBILITIES •••Read and observe the safety rules. Follow a regular schedule in maintaining, caring for and using your lawn mower. Follow the instructions under "Maintenance" and "Storage" sections of this owner's manual. TABLE OF CONTENTS SAFETY RULES

.....
.....
.....
.....

... 2-3 PRODUCT SPECIFICATIONS.....

.....
.....
.....
.....

.. 3 CUSTOMER RESPONSIBILITIES.....

.....
.....
.....

..... 3 ASSEMBLY.....

.....
.....
.....
.....
.....
.....

4-5 OPERATION

.....
.....
.....
.....
.....

. 6-10 MAINTENANCE SCHEDULE

.....
.....
.....

.... 11 MAINTENANCE .

.....
.....
.....
.....

.....
... 11-13 SERVICE AND ADJUSTMENTS ..

.....
. 14-15 STORAGE....

.....
.... 15-16 TROUBLESHOOTING .

.....
... 17 REPAIR PARTS

.....
..... 18-21 WARRANTY...

.. 22 3 Engine Power Rating Information The gross power rating for individual gas engine models is labeled in accordance with SAE (Society of Automotive Engineers) code J11940 (Small Engine Power & Torque Rating Procedure), and rating performance has been obtained and corrected in accordance with SAE J1995 (Revision 2002-5). Actual gross engine power will be lower and is affected by, among other things, ambient operating conditions and engine-to-engine variability. Given both the wide array of products on which engines are placed and the variety of environmental issues applicable to operating the equipment, the gas engine will not develop the rated gross power when used in a given piece of power equipment (actual "on-site" or net horsepower). This difference is due to a variety of factors including, but not limited to, accessories (air cleaner, exhaust, charging, cooling, carburetor, fuel pump, etc.), application limitations, ambient operating conditions (temperature, humidity, altitude), and engine-to-engine variability. Due to manufacturing and capacity limitations, Briggs & Stratton may substitute an engine of higher rated power for this Series engine. **ASSEMBLY** Read these instructions and this manual in its entirety before you attempt to assemble or operate your new lawn mower. **IMPORTANT: THIS LAWN MOWER IS SHIPPED WITHOUT OIL OR GASOLINE IN THE ENGINE.**

Your new lawn mower has been assembled at the factory with the exception of those parts left unassembled for shipping purposes. All parts such as nuts, washers, bolts, etc., necessary to complete the assembly have been placed in the parts bag. To ensure safe and proper operation of your lawn mower, all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to ensure proper tightness.

OPERATOR PRESENCE CONTROL BAR LIFT UP MOWING POSITION LIFT UP UPPER HANDLE HANDLE KNOB TO REMOVE MOWER FROM CARTON 1. Remove loose parts included with mower. 2. Cut down two end corners of carton and lay end panel down flat. 3.

Remove all packing materials except padding between upper and lower handle and padding holding operator presence control bar to upper handle. 4. Roll lawn mower out of carton and check carton thoroughly for additional loose parts. **LOWER HANDLE HOW TO SET UP YOUR MOWER TO UNFOLD HANDLE** (See Figs. 1 and 2) **IMPORTANT: UNFOLD HANDLE CAREFULLY SO AS NOT TO PINCH OR DAMAGE CONTROL CABLES.** 1. Raise lower handle section to operating position and squeeze the bottom ends of lower handle towards each other until the pin in handle can be inserted into one of the three height adjustment holes. 2. Remove protective padding, raise upper handle section into place on lower handle and tighten both handle knobs. 3.

Remove any packing material from around control bar. You need. There is a turnbuckle on the underside of the drive control housing to increase tension on the drive cable. Proceed as follows: 1. Turn unit off and disconnect spark plug wire from plug. 2. Turn nut on underside of drive control to increase drive speed. 3. Operate mower to test drive speed. Readjust as required.

4. If condition fails to improve after the above steps (forward speed remains the same), your drive belt is worn and should be replaced. **ENGINE ZONE CONTROL CAUTION:** Federal regulations require an engine control to be installed on this lawn mower in order to minimize the risk of blade contact injury. Do not under any circumstances attempt to defeat the function of the operator control. The blade turns when the engine is running.

• Your lawn mower is equipped with an operator presence control bar which requires the operator to be positioned behind the lawn mower handle to start and operate the lawn mower. **DRIVE CONTROL (See Fig. 5A)** Self-propelling is controlled by holding the operator presence control bar down to the handle and pulling the drive control lever rearward to the handle. The farther toward the handle the lever is pulled, the faster the unit will travel. • Forward motion will stop when either the operator presence control bar or drive control lever are released.

To stop forward motion without stopping engine, release the drive control lever only. Hold operator presence control bar down against handle to continue mowing without self-propelling. **NOTE:** If after releasing the drive control the mower will not roll backwards, push the mower forward slightly to disengage drive wheels. **OPERATOR PRESENCE CONTROL BAR WHEEL ADJUSTER LEVER • ADJUSTMENT TURNBUCKLE FIG. 5B TO ADJUST CUTTING HEIGHT (See Fig. 6)** All four wheels are adjusted by a single lever. • Pull adjuster lever toward wheel. To raise mower, move lever forward to desired position. To lower mower, move the lever toward the rear. **LEVER BACKWARD TO LOWER MOWER DRIVE CONTROL LEVER TO ENGAGE DRIVE CONTROL DRIVE CONTROL DISENGAGED FIG.**

5A LEVER FORWARD TO RAISE MOWER 7 FIG. 6 OPERATION TO ATTACH GRASS CATCHER (See Fig. 7) 1. Lift the rear door of the lawn mower and place the grass catcher frame side hooks onto the door pivot pins. 2. The grass catcher is secured to the lawn mower housing when the rear door is lowered onto the grass catcher frame. **CAUTION:** Do not run your lawn mower without mulcher plug or approved grass catcher in place. Never attempt to operate the lawn mower with the rear door removed or propped open. **TO CONVERT MOWER** Your lawn mower was shipped ready to be used as a mulcher.



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To convert to bagging or discharging: REAR BAGGING (See Fig.

9) • Open rear door and remove mulcher plug. Store mulcher plug in a safe place. • You can now install the grass catcher. • To convert to mulching or discharging operation, install mulcher plug into rear discharge opening of mower. PIVOT PINS REAR DOOR GRASS CATCHER HANDLE MULCHER PLUG FIG.

9 CATCHER FRAME HOOK FIG. 7 TO EMPTY GRASS CATCHER (See Fig. 8) 1. Lift up on grass catcher using the frame handle. 2. Remove grass catcher with clippings from under lawn mower handle. 3. Empty clippings from bag. NOTE: Do not drag the bag when emptying; it will cause unnecessary wear. SIDE DISCHARGING (See Fig. 10) • Mulcher plug must be installed into rear discharge opening of mower. • Open mulcher door and install discharge deflector under door as shown. • Mower is now ready for discharging operation. • To convert to mulching or bagging operation, discharge deflector must be removed and mulcher door closed. SIMPLE STEPS TO REMEMBER WHEN CONVERTING YOUR LAWN MOWER FOR MULCHING 1.

Rear mulcher plug installed. 2. Mulcher door closed. FOR REAR BAGGING 1. Rear mulcher plug removed. 2. Grass catcher installed. 3. Mulcher door closed. FOR SIDE DISCHARGING 1.

Rear mulcher plug installed. 2. Discharge deflector installed. CAUTION: Do not run your lawn mower without mulcher plug or approved grass catcher in place. Never attempt to operate the lawn mower with the rear door removed or propped open.

FRAME HANDLE FIG. 8 8 OPERATION BEFORE STARTING ENGINE ADD OIL (See Fig. 11) Your lawnmower is shipped without oil in the engine. For type and grade of oil to use, see "ENGINE" in the Maintenance section of this manual. CAUTION: DO NOT overfill engine with oil, or it will smoke on startup.

1. Be sure lawnmower is level. 2. Remove oil dipstick from oil fill spout. 3. Engine holds 20 ounces of oil. For type and grade of oil to use, see "ENGINE" in the Maintenance section of this manual. 4. Pour oil slowly. Do not overfill.

Wait one minute to allow oil to settle. Insert and tighten dipstick, then remove it to check oil level. IMPORTANT: OPEN MULCHER DOOR •• Check oil level before each use. Add oil if needed. Fill to full line on dipstick. Change the oil after every 25 hours of operation or each season. You may need to change the oil more often under dusty, dirty conditions. See "TO CHANGE ENGINE OIL" in the Maintenance section of this manual. GASOLINE FILLER CAP ENGINE OIL CAP DISCHARGE DEFLECTOR PRIMER FIG. 11 FIG.

10 9 OPERATION ADD GASOLINE (See Fig. 11) • Fill fuel tank to bottom of tank filler neck. Do not overfill. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octane. Do not mix oil with gasoline.

Purchase fuel in quantities that can be used within 30 days to assure fuel freshness. CAUTION: Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame. Alcohol blended fuels (called gasohol or using 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. Empty the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur. • MOWING TIPS CAUTION: Do not use de-thatcher blade attachments on your mower. Such attachments are hazardous, will damage your mower and could void your warranty. Under certain conditions, such as very tall grass, it may be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of grass clippings. It may also be necessary to reduce ground speed and/or run the lawn mower over the area a second time. For extremely heavy cutting, reduce the width of cut by overlapping previously cut path and mow slowly.

For better grass bagging and most cutting conditions, the engine speed should be set in the fast position. Pores in cloth grass catchers can become filled with dirt and dust with use and catchers will collect less grass. To prevent this, regularly hose catcher off with water and let dry before using. Keep top of engine around starter clear and clean of grass clippings and chaff. This will help engine air flow and extend engine life. •••• MULCHING MOWING TIPS TO STOP ENGINE • To stop engine, release operator presence control bar. IMPORTANT: FOR BEST PERFORMANCE, KEEP MOWER HOUSING FREE OF BUILT-UP GRASS AND TRASH. SEE "CLEANING" IN THE MAINTENANCE SECTION OF THIS MANUAL. • TO START ENGINE NOTE: Due to protective coatings on the engine, a small amount of smoke may be present during the initial use of the product and should be considered normal. 1.

To start a cold engine, push primer three (3) times before trying to start. Use a firm push. This step is not usually necessary when starting an engine which has already run for a few minutes. 2. Hold operator presence control bar down to the handle and turn the start key.

IMPORTANT: DO NOT CRANK ENGINE MORE THAN FIVE CONTINUOUS SECONDS BETWEEN EACH TIME YOU TRY TO START. WAIT 5 TO 10 SECONDS BETWEEN EACH ATTEMPT. ••• To start engine using the rope starter, follow the steps above. Exchange the use of the starter rope for start key. Pull starter handle quickly.

Do not allow starter rope to snap back. NOTE: In cooler weather it may be necessary to repeat priming steps. In warmer weather over priming may cause flooding and engine will not start. If you do flood engine, wait a few minutes before attempting to start and do not repeat priming steps. The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades. Avoid cutting your lawn when it is wet. @@ The best time to mow your lawn is the early afternoon. @@@@12).

@@@@@@@ Change your cutting pattern from week to week. Mow north to south one week then east to west the next week. @@2 - Service more often if operating in dirty or dusty conditions. 3 - Replace blades more often when mowing in sandy soil. 4 - Charge 48 hours at end of season.

@@@@@@@ Check engine oil level. 2. @@@@@@@@@@ Care should be taken to keep the blade balanced. An unbalanced blade will cause eventual damage to lawn mower or engine. • The blade can be sharpened with a file or on a grinding wheel.

Do not attempt to sharpen while on the mower. • To check blade balance, drive a nail into a beam or wall. Leave about one inch of the straight nail exposed.



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Place center hole of blade over the head of the nail. If blade is balanced, it should remain in a horizontal position.

If either end of the blade moves downward, sharpen the heavy end until the blade is balanced. **BLADE CARE** For best results, mower blade must be kept sharp. Replace bent or damaged blades. **CAUTION:** Use only a replacement blade approved by the manufacturer of your mower. Using a blade not approved by the manufacturer of your mower is hazardous, could damage your mower and void your warranty.

TO REMOVE BLADE (See Fig. 13) 1. Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug. 2. Turn lawn mower on its side. Make sure air filter and carburetor are up. 3. Use a wood block between blade and mower housing to prevent blade from turning when removing blade bolt. **NOTE:** Protect your hands with gloves and/or wrap blade with heavy cloth. 4.

Remove blade bolt by turning counter-clockwise. 5. Remove blade and attaching hardware (bolt, lock washer and hardened washer). **NOTE:** Remove the blade adapter and check the key inside hub of blade adapter. The key must be in good condition to work properly. Replace adapter if damaged. **TO REPLACE BLADE** (See Fig. 13) 1. Position the blade adapter on the engine crankshaft. Be sure key in adapter and crankshaft keyway are aligned.

2. Position blade on the blade adapter aligning the two (2) holes in the blade with the raised lugs on the adapter. 3. Be sure the trailing edge of blade (opposite sharp edge) is up toward the engine. 4.

Install the blade bolt with the lock washer and hardened washer into blade adapter and crankshaft. 5. Use block of wood between blade and lawn mower housing and tighten the blade bolt, turning clockwise. • The recommended tightening torque is 35-40 ft. lbs.

IMPORTANT: BLADE BOLT IS HEAT TREATED. IF BOLT NEEDS REPLACING, REPLACE ONLY WITH APPROVED BOLT SHOWN IN THE REPAIR PARTS SECTION OF THIS MANUAL. **GRASS CATCHER** • The grass catcher may be hosed with water, but must be dry when used. Check your grass catcher often for damage or deterioration. Through normal use it will wear. If catcher needs replacing, replace only with approved replacement catcher shown in the Repair Parts section of this manual. Give the lawn mower model number when ordering. **GEAR CASE** • To keep your drive system working properly, the gear case and area around the drive should be kept clean and free of trash build-up. Clean under the drive cover twice a season. The gear case is filled with lubricant to the proper level at the factory.

The only time the lubricant needs attention is if service has been performed on the gear case. If lubricant is required, use only Texaco Starplex Premium 1 Grease, Part No. 750369. Do not substitute. • • **12 MAINTENANCE ENGINE LUBRICATION** Use only high quality detergent oil rated with API service classification SG-SL. Select the oil's SAE viscosity grade according to your expected operating temperature. **SAE VISCOSITY GRADES** SAE 30 5W-30 F C -30 -20 -20 0 -10 30 32 0 40 10 60 20 80 30 100 40 **TO CLEAN AIR FILTER** 1. Loosen screws and remove cover. 2. Carefully remove cartridge.

3. Clean by gently tapping on a flat surface. If very dirty, replace cartridge. **CAUTION:** Petroleum solvents, such as kerosene, are not to be used to clean cartridge. They may cause deterioration of the cartridge.

Do not oil cartridge. Do not use pressurized air to clean or dry cartridge. 4. Install cartridge, then replace cover. **SCREWS TEMPERATURE RANGE ANTICIPATED BEFORE NEXT OIL CHANGE** **NOTE:** Multi-viscosity oils (5W30, 10W30 etc.

) improve starting in cold weather, and you should check your engine oil level frequently to avoid possible engine damage from running low on oil. Change the oil after every 25 hours of operation or at least once a year if the lawn mower is not used for 25 hours in one year. Check the crankcase oil level before starting the engine and after each five (5) hours of continuous use. Tighten oil plug securely each time you check the oil level. **COVER CARTRIDGE BASE TO CHANGE ENGINE OIL** (See Fig. 14) **NOTE:** Before tipping lawn mower to drain oil, empty fuel tank by running engine until fuel tank is empty. 1.

Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug. 2. Remove engine oil cap; lay aside on a clean surface.

3. Tip lawn mower on its side as shown and drain oil into a suitable container. Rock lawn mower back and forth to remove any oil trapped inside of engine. 4. Wipe off any spilled oil from mower or side of engine. **MUFFLER** **FIG. 15** Inspect and replace corroded muffler as it could create a fire hazard and/or damage. **SPARK PLUG** Replace spark plug at the beginning of each mowing season or after every 100 hours of operation, whichever occurs first. Spark plug type and gap setting are shown in the "PRODUCT SPECIFICATIONS" section of this manual. **CLEANING CONTAINER** **IMPORTANT: FOR BEST PERFORMANCE, KEEP MOWER HOUSING FREE OF BUILT-UP GRASS AND TRASH.**

CLEAN THE UNDERSIDE OF YOUR MOWER AFTER EACH USE. 5. 6. 7. 8.

9. **FIG. 14** Slowly pour oil down the oil fill spout, stopping every few ounces to check the oil level with the dipstick. Stop adding oil when you reach the **FULL** mark on the dipstick. Wait a minute to allow oil to settle.

Continue adding small amounts of oil, rechecking the dipstick until oil level settles at **FULL**. **DO NOT** overfill, or engine will smoke heavily from the muffler on startup. Always be sure to retighten dipstick before starting engine. Reconnect spark plug wire to spark plug. **CAUTION:** Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug. • • • Clean the underside of your lawn mower by scraping to remove build-up of grass and trash. Clean engine often to keep trash from accumulating. A clogged engine runs hotter and shortens engine life. Keep finished surfaces / wheels free of gasoline, oil, etc. We do not recommend using a garden hose to clean lawn mower unless the electrical system, muffler, air filter and carburetor are covered to keep water out.

Water in engine can result in shortened engine life. **AIR FILTER** (See Fig. 15) Your engine will not run properly and may be damaged by using a dirty air filter. Replace the air filter cartridge every 100 hours of operation or every season, whichever occurs first. Service air cleaner more often under dusty conditions. **13 CLEAN UNDER DRIVE COVER** Clean under drive cover at least twice a season. Scrape underside of cover with putty knife or similar tool to remove any build-up of trash or grass on underside of drive cover. **SERVICE AND ADJUSTMENTS** **CAUTION: TO AVOID SERIOUS INJURY, BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:** 1. Release control bar and stop engine. 2.

Make sure the blade and all moving parts have completely stopped. 3. Disconnect spark plug wire from spark plug and place where it cannot come in contact with plug. **LAWN MOWER TO ADJUST CUTTING HEIGHT** See "TO ADJUST CUTTING HEIGHT" in the Operation section of this manual.



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CRANKSHAFT HOUSING BLADE ADAPTER / PULLEY REAR DEFLECTOR The rear deflector, attached between the rear wheels of your mower, is provided to minimize the possibility that objects will be thrown out of the rear of the mower into the operator's mowing position.

If the deflector becomes damaged, it should be replaced. **HARDENED WASHER TO REMOVE DRIVE BELT** (See Figs. 16 & 17) 1. Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug. 2.

Remove screws retaining drive cover (not shown); and remove drive cover from lawn mower housing. 3. Remove drive cable from anchor, then detach it and return spring from idler arm assembly. 4. Remove idler arm assembly from housing by removing hex nut; then remove drive belt from drive pulley, belt keepers and idler arm assembly. 5. Turn lawn mower on its side. Make sure air filter and carburetor are up. 6. Use a wood block between blade and mower housing to prevent blade from turning when removing blade bolt.

NOTE: Protect your hands with gloves and/or wrap blade with heavy cloth. 7. Remove blade bolt. 8. Remove blade, attaching hardware (bolt, lock washer, hardened washer), blade adapter / pulley and debris shield. Note that the debris shield has a screw which fits into the housing. 9. Remove drive belt from engine pulley; discard old belt. **DRIVE PULLEY DRIVE CABLE ANCHOR HOUSING HOLES DEBRIS SHIELD SCREW TRAILING EDGE BLADE BOLT LOCKWASHER FIG. 17 TO REPLACE DRIVE BELT** (See Figs.

16 & 17) 1. Place new drive belt on engine pulley. 2. Route the other end of the new drive belt through hole in housing. 3.

Return mower to upright position. 4. Install new drive belt into idler arm assembly, then around the drive pulley. Be sure belt is inside of belt keepers. 5. Reattach idler arm assembly with hex nut previously removed. 6. Turn lawn mower on its side. Make sure air filter and carburetor are up. 7. Reattach debris shield to housing with tab of debris shield in housing hole. 8. Position blade on the blade adapter / pulley aligning the two (2) holes in the blade with the raised lugs on the adapter. 9. Be sure the trailing edge of blade (opposite sharp edge) is up toward the engine as shown.

10. Install the blade bolt with the lock washer and hardened washer into blade adapter / pulley and crankshaft. 11. Use block of wood between blade and lawn mower housing and tighten the blade bolt, turning clockwise. • The recommended tightening torque is 35-40 ft. lbs. **IMPORTANT: BLADE BOLT IS HEAT TREATED. IF BOLT NEEDS REPLACING, REPLACE ONLY WITH APPROVED BOLT SHOWN IN THE REPAIR PARTS SECTION OF THIS MANUAL. DRIVE BELT BELT KEEPERS IDLER ARM ASSEMBLY HEX NUT RETURN SPRING FIG. 16 12.**

Return mower to upright position. 13. Reattach drive cable and return spring to the idler arm assembly, then reattach drive cable to anchor. 14. Reattach drive cover with screws previously removed.

15. Connect spark plug wire to spark plug. **14 SERVICE AND ADJUSTMENTS TO ADJUST HANDLE** (See Fig. 18) The handle on your lawn mower has three (3) height positions - adjust to height that suits you. • Squeeze the bottom ends of lower handle towards each other until the pin in handle can be inserted into one of the three height adjustment holes.

ENGINE ENGINE SPEED Your engine speed has been factory set. Do not attempt to increase engine speed or it may result in personal injury. If you believe that the engine is running too fast or too slow, take your lawn mower to a Husqvarna service center for repair and adjustment. **HANDLE PIN SQUEEZE CARBURETOR HIGH HANDLE BRACKET MED. LOW** Your carburetor is not adjustable. If your engine does not operate properly due to suspected carburetor problems, take your lawn mower to a Husqvarna service center for repair and/or adjustment. **IMPORTANT: NEVER TAMPER WITH THE ENGINE GOVERNOR, WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING THE ENGINE ABOVE THE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS. IF YOU THINK THE ENGINE-GOVERNED HIGH SPEED NEEDS ADJUSTING, CONTACT YOUR NEAREST HUSQVARNA SERVICE CENTER, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS. FIG.**

18 STORAGE Immediately prepare your mower for storage at the end of the season or if the unit will not be used for 30 days or more. **LAWN MOWER** When lawn mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Store in a clean, dry area. 1. Clean entire lawn mower (See "CLEANING" in the Maintenance section of this manual). 2. Lubricate as shown in the Maintenance section of this manual. 3. Be sure that all nuts, bolts, screws, and pins are securely fastened. Inspect moving parts for damage, breakage and wear.

Replace if necessary. 4. Touch up all rusted or chipped paint surfaces; sand lightly before painting. **HANDLE** (See Figs. 19 and 20) You can fold your lawn mower handle for storage.

1. Loosen the two (2) handle knobs on sides of the upper handle and allow handle to fold down to the rear. 2. Squeeze the bottom ends of lower handle toward each other until pins in handle clear the brackets and pivot entire handle assembly forward and allow it to rest on mower. • When setting up your handle from the storage position, the lower handle will require manually locking into the mowing position.

IMPORTANT: WHEN FOLDING THE HANDLE FOR STORAGE OR TRANSPORTATION, BE SURE TO FOLD THE HANDLE AS SHOWN OR YOU MAY DAMAGE THE CONTROL CABLES. 15 STORAGE OPERATOR PRESENCE CONTROL BAR FOLD FORWARD FOR STORAGE MOWING POSITION ENGINE FUEL SYSTEM IMPORTANT: IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSENTIAL FUEL SYSTEM PARTS SUCH AS CARBURETOR, FUEL FILTER, FUEL HOSE, OR TANK DURING STORAGE. ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING 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. • UPPER HANDLE HANDLE KNOB LOWER HANDLE Empty the fuel tank by starting the engine and letting it run until the fuel lines and carburetor are empty. • Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur. • Use fresh fuel next season. **NOTE:** Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container.

Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not empty the gas tank and carburetor if using fuel stabilizer. **ENGINE OIL FIG. 19** Drain oil (with engine warm) and replace with clean engine oil. (See "ENGINE" in the Maintenance section of this manual). **CYLINDER HANDLE PIN SQUEEZE** 1. Remove spark plug. 2. Pour one ounce (29 ml) of oil through spark plug hole into cylinder. 3.

Pull starter handle slowly a few times to distribute oil. 4. Replace with new spark plug. **HANDLE BRACKET BATTERY** Disconnect the battery from the engine connector and charge battery 48 hours.



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OTHER ••••Do not store gasoline from one season to another.

Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems. If possible, store your unit indoors and cover it to give protection from dust and dirt. Cover your unit with a suitable protective cover that does not retain moisture. Do not use plastic.

Plastic cannot breathe, which allows condensation to form and will cause your unit to rust. IMPORTANT: NEVER COVER MOWER WHILE ENGINE AND EXHAUST AREAS ARE STILL WARM. FIG. 20 CAUTION: Never store the lawn mower with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure. 16 TROUBLESHOOTING POINTS PROBLEM Does not start CAUSE 1. Dirty air filter. 2. Out of fuel. 3.

Stale fuel. 4. 5. 6. 7. 8. 9. 10. 11. 12.

Loss of power CORRECTION 1. Clean/replace air filter. 2. Fill fuel tank. 3.

Empty fuel tank and refill tank with fresh, clean gasoline. Water in fuel. 4. Empty fuel tank and refill tank with fresh, clean gasoline. Spark plug wire is disconnected.

5. Connect wire to plug. Bad spark plug. 6. Replace spark plug. Loose blade or broken blade adapter. 7. Tighten blade bolt or replace blade adapter. Control bar in released position. 8.

Depress control bar to handle. Control bar defective. 9. Replace control bar. Fuel valve lever (if equipped) in OFF position. 10. Turn fuel valve lever to the ON position. Weak battery (if equipped). 11. Charge battery.

Disconnected battery connector (if equipped). 12. Connect battery to engine. 1. Raise cutting height.

2. Raise cutting height. 3. Clean/replace air filter. 4.

Clean underside of mower housing. 5. Check oil level. 6. Cut at slower walking speed. 1. Replace blade. Tighten blade bolt. 2. Set all wheels at same height.

3. Clean underside of mower housing. 1. Rear of lawn mower housing or cutting blade dragging in heavy grass. 2. Cutting too much grass. 3. Dirty air filter. 4. Buildup of grass, leaves and trash under mower.

5. Too much oil in engine. 6. Walking speed too fast. 1.

Worn, bent or loose blade. 2. Wheel heights uneven. 3. Buildup of grass, leaves and trash under mower.

1. Worn, bent or loose blade. 2. Bent engine crankshaft. 1. Engine flywheel brake is on when control bar is released. 2. Bent engine crankshaft. 3. Blade adapter broken.

4. Blade dragging in grass. Poor cut – uneven Excessive vibration Starter rope hard to pull 1. Replace blade. Tighten blade bolt. 2. Contact a Husqvarna service center. 1. Depress control bar to upper handle before pulling starter rope. 2.

Contact a Husqvarna service center. 3. Replace blade adapter. 4. Move lawn mower to cut grass or other hard surface before starting.

1. Raise cutting height. 2. Replace blade. 3.

Clean grass catcher. 1. Raise cutting height. 2. Raise rear of lawn mower housing one (1) setting higher. 3. Empty grass catcher. 4. Adjust handle height to suit. 1.

2. 3. 4. Check/replace drive belt. Check/reinstall drive belt. Put belt on pulleys / replace belts if broken. Adjust drive control. Grass catcher 1. Cutting height too low. not filling 2.

Lift on blade worn off. (if so equipped) 3. Catcher not venting air. Hard to push 1. Grass is too high or wheel height is too low.

2. Rear of lawn mower housing or cutting blade dragging in heavy grass. 3. Grass catcher too full. 4.

Handle height position not right for you. 1. 2. 3. 4. Belt wear. Belt off of pulley. Drive cable worn or broken. "Loose" drive control system. Loss of drive (or slowing of drive speed) 17 ROTARY LAWN MOWER - - MODEL NUMBER 87521RES (96143002200) - PRODUCT NUMBER 961 43 00-22 18 ROTARY LAWN MOWER - - MODEL NUMBER 87521RES (96143002200) - PRODUCT NUMBER 961 43 00-22 KEY NO.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 PART NO. 532 19 99-82 532 19 60-05 532 40 54-16 532 19 47-88 532 13 20-04 532 06 64-26 532 19 15-74 532 18 55-88 532 19 70-19 532 18 88-21 532 75 11-53 532 05 17-93 532 40 54-15 532 75 06-34 532 12 51-62 532 40 88-88 532 18 41-93 532 19 81-70 532 41 04-53 532 19 40-29 532 19 40-31 532 15 00-78 532 16 31-83 873 80 05-00 532 16 13-33 532 16 34-09 532 18 89-86 532 08 86-52 532 19 49-53 532 18 91-79 532 40 67-12 532 85 10-74 532 85 02-63 532 85 10-84 KEY NO. 35 36 37 38 PART NO. 532 18 87-86 532 19 23-25 532 15 04-06 --- DESCRIPTION Handle, Upper (Includes Foam Grip) Handle, Lower Spring, Rear Door, RH Guide, Rope, Side Nut, Hex Lockwasher Insert 1/4-20 Wire, Tie Bolt, Handle 5/16-18 x 1.75 Knob, Handle Bail, Flat, Auto-Walk, Orange Bolt, Carriage Nut, Hex, Centerlock 5/16-18 UNC Cotter, Hairpin Spring, Rear Door, LH Screw Bracket, Upstop Rear Door Assembly Bolt, Rear Door Plug, Mulcher Kit, Housing Handle Bracket Assembly, LH Handle Bracket Assembly, RH Screw, Hex Washer Head Bolt, Hex Head 5/16-18 x 5/8 Nut, Hex, with Lock Washer Insert 5/16-18 Baffle, Side Screw 12 x 5/8 Skirt, Rear Screw, Hinge 1/4-20 x 1.25 Key Start Switch (Includes Cable and Key) Blade Adapter / Pulley Blade, 21" Washer, Hardened Lockwasher, Helical Spring 3/8 Screw, Hex Head 3/8-24 x 1.38 DESCRIPTION Debris Shield Screw Bolt, Engine Engine, Briggs & Stratton, Model Number 12S505 (For engine service and replacement parts, call Briggs & Stratton at 1-800-233-3723) Grassbag Frame, Grassbag Danger Decal Screw Mulcher Door Assembly Deflector, Discharge Nut, Hex Mounting Bracket, Debris Shield Screw Pulley Assembly, V-Groove Flange Nut Locknut Idler Arm Idler Pulley Shoulder Bolt Bracket Assembly Clip Grip, Handle, Foam, Smooth Spring, Return Screw Box, Battery Battery Charger, Battery Screw Key Clip, Cable Warning Decal (not shown) Owner's Manual, English / French 39 40 41 42 45 46 47 48 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 67 96 --- 532 40 97-26 532 40 74-53 532 40 47-63 532 05 45-83 532 19 05-10 532 19 05-12 532 08 83-49 532 19 09-39 532 05 78-08 532 19 37-91 532 14 52-12 532 15 55-52 532 19 68-12 532 16 60-43 532 16 08-29 532 19 33-15 532 18 20-03 532 18 27-48 532 18 22-26 817 41 13-18 532 19 34-76 532 18 95-89 532 19 00-97 532 18 61-59 532 18 03-31 532 19 79-91 532 40 47-64 532 41 29-72 19 NOTE: All component dimensions given in U.S. inches. 1 inch = 25.

4 mm IMPORTANT: Use only Original Equipment Manufacturer (O.E.M.) replacement parts. Failure to do so could be hazardous, damage your lawn mower and void your warranty.

ROTARY LAWN MOWER - - MODEL NUMBER 87521RES (96143002200) - PRODUCT NUMBER 961 43 00-22 20 ROTARY LAWN MOWER - - MODEL NUMBER 87521RES (96143002200) - PRODUCT NUMBER 961 43 00-22 KEY NO. 1 2 3 4 5 6 7 9 10 12 13 14 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 PART NO. 532 40 27-90 532 19 57-61 532 18 73-53 532 19 00-39 532 19 57-62 532 18 16-98 532 40 07-23 532 19 60-02 532 18 93-78 532 18 76-53 532 18 86-45 532 19 34-43 532 40 71-47 532 40 49-42 532 19 61-62 532 19 06-22 812 00 00-22 532 16 33-65 532 16 99-11 532 16 45-55 532 05

78-08 532 40 07-83 532 75 06-34 532 05 21-60 812 00 00-58 532 18 94-03 532 17 51-04 532 18 41-72 532 41 10-81 DESCRIPTION Drive Control Assembly

Cover, Top, Drive Control Pulley Lever, Drive Control Cover, Bottom, Drive Control Screw, Phillips Head #10 x 5/8 Mounting Bracket, Drive Control Cable, Drive Control Decal, Drive Control Screw Gear Case Assembly (See Breakdown) Pulley, Drive Rod, Connecting Spring, Extension Spring Selector Knob, Selector Spring E-Ring Bearing, Support Bearing, Ball Retainer, Drive Assembly, Stamped Screw, Tapping, Hex Head 1/4-20 x 3/4 Cover Drive Screw, Threaded, Rolled #10-25 x 1/2 Washer, Shim (as required) E-Ring 7/16 Cover, Dust, Wheel Disc, Drive Seal, Friction Wheel & Tire Assembly, Rear KEY NO.



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33 34 35 36 37 38 39 40 41 43 44 45 46 47 48 49 50 61 62 63 64 65 66 67 68 69 70 71 72 PART NO. 532 40 91-48 532 85 12-26 532 41 09-22 532 41 09-33
532 16 14-63 532 16 34-09 532 40 70-59 532 41 08-31 532 18 83-30 532 18 83-31 532 18 36-88 532 17 50-98 532 18 82-91 532 06 77-25 532 17 51-05 532
17 51-03 532 17 51-02 532 18 75-30 532 18 75-31 532 18 75-32 532 18 75-33 532 18 35-05 532 18 35-06 532 18 35-08 532 18 35-09 532 18 35-11 532 19
12-49 532 18 35-13 532 18 35-14 DESCRIPTION Nut, Hex, Flangelock 3/8-16 Washer Shaft Assembly, Rear Shaft Assembly, Front Retainer, Front Shaft
Screw #12 x 5/8 Bolt, Shoulder, Semi-Gimlett Point Wheel & Tire Assembly, Front 8 x 2 Pinion Assembly, RH Pinion Assembly, LH V-Belt Pawl Spring,
Torsion Washer 1/2 x 1-1/2 x .

134 Retainer, Drive, LH Gear, Pinion Retainer, Drive, RH Case, Lower Case, Upper Gear, 24 Teeth Shaft, Input Wire, Formed Bearing, Ball Seal, Output
Shaft Washer Bushing Shaft, Output Screw Seal, Input Shaft 21 NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm IMPORTANT: Use
only Original Equipment Manufacturer (O.E.M.) replacement parts. Failure to do so could be hazardous, damage your lawn mower and void your warranty.

WARRANTY STATEMENT SECTION 1: LIMITED WARRANTY Husqvarna Forest & Garden Company ("Husqvarna") warrants Husqvarna product to the
original purchaser to be free from defects in material and workmanship from the date of purchase for the "Warranty Period" of the product as set forth
below: Lifetime Warranty: All tiller tines against breakage, trimmer shafts, ignition coils and modules on hand held product.

@@@All trimmers, brushcutters, clearing saws, hovering trimmers, stick edgers, backpack blowers, hand held blowers, hedge trimmers, power-
assist collection systems used for commercial, institutional, professional or income producing purposes or use. Batteries have a one-year prorated limited
warranty with 100% replacement during the first 6 months. 90 Day Warranty: Automatic Mower, Chain saws, power cutters, stump grinders, pole saws, pole
pruners, snow throwers, model series 580 & 600 walk-behind mowers and commercial turf equipment or any Husqvarna product used for commercial,
institutional, professional, or income producing purposes or use except as otherwise provided herein. Husqvarna Safety Apparel carries a 90-day warranty
from the date of the customer's original purchase for defects in material and workmanship. Normal wear, tear or abuse is not covered under warranty.
Product must be returned to Charlotte with a warranty claim form. All care and maintenance instructions must be followed as stated by the manufacturer on
the care label. The fit of the protective apparel/boot is not covered under warranty. 30 Day Warranty: Replacement parts, accessories including bars and
chains, tools and display items. SECTION 4: EXCEPTIONS AND LIMITATIONS This warranty shall be inapplicable to defects resulting from the following:
(1) Accident, abuse, misuse, negligence and neglect, including stale fuel, dirt, abrasives, moisture, rust, corrosion, or any adverse reaction due to incorrect
storage or use habits; (2) Failure to operate or maintain the unit in accordance with the Owner's/Operator's manual or instruction sheet furnished by
Husqvarna; (3) Alterations or modifications that change the intended use of the product or affects the product's performance, operation, safety, or durability,
or causes the product to fail to comply with any applicable laws; or: (4) Additional damage to parts or components due to continued use occurring after any of
the above.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER. HUSQVARNA SHALL
NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THESE
PRODUCTS EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW. ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A
PARTICULAR PURPOSE ON THESE PRODUCTS IS LIMITED IN DURATION TO THE WARRANTY PERIOD AS DEFINED IN THE LIMITED
WARRANTY STATEMENT. HUSQVARNA RESERVES THE RIGHT TO CHANGE OR IMPROVE THE DESIGN OF THE PRODUCT WITHOUT NOTICE,
AND DOES NOT ASSUME OBLIGATION TO UPDATE PREVIOUSLY MANUFACTURED PRODUCTS. Some states do not allow the exclusion of incidental
or consequential damages, or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. SECTION 5: CUSTOMER
RESPONSIBILITIES The product must exhibit reasonable care, maintenance, operation, storage and general upkeep as written in the maintenance section of
the Owner's/Operator's manual. Should an operational problem or failure occur, the product should not be used, but delivered as is to an authorized
Husqvarna dealer for evaluation. Proof of purchase, as explained in section 6, rests solely with the customer. 22 SECTION 6: PROCEDURE TO OBTAIN
WARRANTY CONSIDERATION It is the Owner's and Dealer's responsibility to make certain that the Warranty Registration Card is properly filled out and
mailed to Husqvarna Forest & Garden Company.

This card should be mailed within ten (10) days from the date of purchase in order to confirm the warranty and to facilitate post-sale service. Proof of
purchase must be presented to the authorized Husqvarna dealer in order to obtain warranty service. This proof must include date purchased, model number,
serial number, and complete name and address of the selling dealer. To obtain the benefit of this warranty, the product believed to be defective must be
delivered to an authorized Husqvarna dealer in a timely manner, no later than thirty (30) days from date of the operational problem or failure. The product
must be delivered at the owner's expense. Pick-up and delivery charges are not covered by this warranty. An authorized Husqvarna dealer can be normally
located through the "Yellow Pages" of the local telephone directory or by calling 1-800-HUSKY62 for a dealer in your area. SECTION 2: HUSQVARNA'S
OBLIGATIONS UNDER THE WARRANTY Husqvarna will repair or replace defective components without charge for parts or labor if a component fails
because of a defect in material or workmanship during the warranty period. SECTION 3: ITEMS NOT COVERED BY THIS WARRANTY The following items
are not covered by this warranty: (1) Normal customer maintenance items which become worn through normal regular use, including, but not limited to, belts,
blades, blade adapters, bulbs, filters, guide bars, lubricants, rewind springs, saw chain, spark plugs, starter ropes and tines; (2) Natural discoloration of
material due to ultraviolet light; (3) Engine and drive systems not manufactured by Husqvarna; these items are covered by the respective manufacturer's
warranty as provided in writing with the product information supplied at the time of purchase; all claims must be sent to the appropriate manufacturer;
(4) Lawn and garden attachments are covered by a third party which gives a warranty, all claims for warranty should be sent to the manufacturer; and
(5) Emission Control System components necessary to comply with CARB-TIER-II and EPA regulations which are manufactured by third party engine
manufacturer.



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