# **Husqvarna**



# **5521CM**

**Owner's Manual** 



## SAFETY RULES Safe Operation Practices for Walk-Behind Mowers



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



Look for this symbol to point out important safety precautions. It means CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.



CAUTION: Always disconnect spark plug wire and place wire where it cannot contact spark plug in order to prevent accidental starting when setting up, transporting, adjusting or making repairs.



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



WARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.



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 richochet 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.

- 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 onmowerssoequippedbeforestartingtheengine (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.

## **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.

#### V. GENERAL SERVICE

- Never run a machine inside a closed area.
- Never make adjustments or repairs with the engine (motor) running. Disconnect spark plug wire, and keep

wire away from plug to prevent accidental starting.

- Keep nuts and bolts, especially blade attachement 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.

**AWARNING:** 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.

In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest authorized service center.

**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. 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 DECALATTACHED 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:	1.0 Quarts (Unleaded Regular Only)
Oil Type (API SG–SL):	SAE 30 (above 0°C / 32°F) SAE 10W-30 (below 0°C / 32°F)
Oil Capacity:	18.5 Ounces
Spark Plug:	NGK BPR6ES (Gap: .030")
Valve Clearance: (± 0.04 mm)	Intake: 0.015 mm Exhaust: 0.020 mm
Blade Bolt Torque:	35-40 ft. lbs.

# 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.

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# 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.

#### TO REMOVE LAWN 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 thorougly for additional loose parts.

#### HOW TO SET UP YOUR LAWN MOWER TO UNFOLD HANDLE (See Fig. 1)

**IMPORTANT**: UNFOLD HANDLE CAREFULLY SO AS NOT TO PINCH OR DAMAGE CONTROL CABLES.

- 1. Raise handles until lower handle section locks into place in mowing position.
- 2. Remove protective padding, raise upper handle section into place on lower handle and tighten both handle knobs.
- 3. Remove handle padding holding operator presence control bar to upper handle.

Your handles may be adjusted for your mowing comfort. Refer to "ADJUST HANDLE" in the Service and Adjustments section of this manual.



# TO ASSEMBLE GRASS CATCHER (See Fig. 2)

- 1. Put grass catcher frame into grass bag with rigid part of bag on the bottom. Make sure the frame handle is outside of the bag top.
- 2. Slip vinyl bindings over frame.

**NOTE**: If vinyl bindings are too stiff, hold them in warm water for a few minutes. If bag gets wet, let it dry before using.



FIG. 2

## TO INSTALL ATTACHMENTS

Your lawn mower was shipped ready to be used as a mulcher. To convert mower to bagging or discharging, see "TO CONVERT MOWER" in the Operation section of this manual.



# KNOW YOUR LAWN MOWER

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR LAWN MOWER.

Compare the illustrations with your lawn mower to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.

These symbols may appear on your lawn mower or in literature supplied with the product. Learn and understand their meaning.



**IMPORTANT**: This lawn mower is shipped WITHOUT OIL OR GASOLINE in the engine.

## MEETS CPSC SAFETY REQUIREMENTS

Our rotary walk-behind power lawn mowers conform to the safety standards of the American National Standards Institute and the U.S. Consumer Product Safety Commission. The blade turns when the engine is running.

**OPERATOR PRESENCE CONTROL BAR** – must be held down to the handle to start the engine. Release to stop the engine.

**STARTER HANDLE** – used for starting the engine. **MULCHER DOOR** – allows conversion to discharge or bagging operation.



The operation of any lawn mower can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your lawn mower or performing any adjustments or repairs. We recommend standard safety glasses or a wide vision safety mask over spectacles.

# HOW TO USE YOUR LAWN MOWER

#### **ENGINE SPEED**

The engine speed was set at the factory for optimum performance. Speed is not adjustable.

## **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.

## TO ADJUST CUTTING HEIGHT (See Fig. 3)

Raise wheels for low cut and lower wheels for high cut, adjust cutting height to suit your requirements. Medium position is best for most lawns.

• To change cutting height, squeeze adjuster lever toward wheel. Move wheel up or down to suit your requirements. Be sure all wheels are in the same setting.

**NOTE:** Adjuster is properly positioned when plate tab inserts into hole in lever. Also, 9-position adjusters (if so equipped) allow lever to be positioned between the plate tabs.



FIG. 3

## **TO CONVERT MOWER**

Your lawn mower was shipped ready to be used as a mulcher. To convert to bagging or discharging:

REAR BAGGING (See Fig. 4)

- Lift rear door of the lawn mower and place the grass catcher frame hooks onto the door pivot pins.
- To convert to mulching or discharging operation, remove grass catcher and close rear door.



#### FIG. 4

SIDE DISCHARGING (See Fig. 5)

- Rear door must be closed.
- 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 must be closed.

#### SIMPLE STEPS TO REMEMBER WHEN CONVERTING YOUR LAWN MOWER

FOR MULCHING -

- 1. Rear door closed.
- 2. Mulcher door closed.

FOR REAR BAGGING -

- 1. Grass catcher installed.
- 2. Mulcher door closed.

FOR SIDE DISCHARGING -

- 1. Rear door closed.
- 2. Discharge deflector installed.



CAUTION: Do not run your lawn mower without rear door closed or approved grass catcher in place. Never attempt to operate the lawn mower with the rear door removed or propped open.



#### FIG. 5

#### TO EMPTY GRASS CATCHER (See Fig. 6)

- 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.



FIG. 6

# **BEFORE STARTING ENGINE**

#### ADD OIL (See Fig. 7)

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 fill cap/dipstick from oil fill spout.
- 3. You recieve a container of oil with the unit. Slowly pour the entire container down the oil fill spout into the engine.
- 4. Insert and tighten oil fill cap/dipstick.

#### **IMPORTANT:**

- 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.



#### ADD GASOLINE

 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.

# TO STOP ENGINE (See Fig. 8)

• To stop engine, release operator presence control bar. Wait until blade and all moving parts have stopped and turn fuel valve to OFF position if you do not intend to restart the engine soon.

# TO START ENGINE (See Fig. 8)

**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. Be sure fuel valve is in the ON position.
- 2. Move choke lever to ON  $(|\mathbf{x}|)$  position.
- 3. Hold operator presence control bar down to the handle and pull starter handle quickly. Do not allow starter rope to snap back.

**NOTE:** The choke lever automatically begins moving to the OFF position when operator presence control bar is held down to handle.



### MOWING TIPS



CAUTION: Do not use de-thatcher blade attachmentsonyourmower.Suchattachments 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**

**IMPORTANT**: FOR BEST PERFORMANCE, KEEP MOWER HOUSING FREE OF BUILT-UP GRASS AND TRASH. SEE "CLEANING" IN MAINTENANCE SECTION OF THIS MANUAL.

- 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. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried, yet the newly cut area will not be exposed to direct sunlight.
- For best results, adjust the lawn mower cutting height so that the lawn mower cuts off only the top one-third of the grass blades (See Fig. 9). If the lawn is overgrown it will be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of mulched grass. For extremely heavy mulching, reduce your width of cut by overlapping previously cut path and mow slowly.



FIG. 9

- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across (perpendicular) to the first cut path.
- Change your cutting pattern from week to week. Mow North–South one week, then change to East–West the next week. This helps prevent matting/graining of lawn.

# MAINTENANCE

	MAINTENANCE SCHEDULE	BEFORE EACH USE	AFTER EACH USE	EVERY 10 HOURS	EVERY 25 HOURS OR SEASON	EVERY 100 HOURS	BEFORE STORAGE
	Check for Loose Fasteners	~					<b>~</b>
ľ	Clean / Inspect Grass Catcher *	~	<b>v</b>				<ul> <li>✓</li> </ul>
Ŵ	Check Tires	~					
IN	Check Drive Wheels ***	<b>~</b>					
	Clean Lawn Mower ****		<b>/</b>				<b>v</b>
Μ	Clean under Drive Cover ***			<b>/</b>			
0	Check Drive Belt / Pulleys ***				<b>~</b>		
E	Check / Sharpen / Replace Blade				✔3		
	Lubrication				<b>~</b>		
	Clean and Recharge Battery **				<ul> <li>✓</li> </ul>		✔4
	Check Engine Oil level	✓5					
E	Change Engine Oil				1,2		
N	Clean Air Filter				✓2		
G	Inspect Muffler				<ul> <li>✓</li> </ul>		
ĥ	Replace Spark Plug					~	
E	Replace Air Filter Paper Cartridge					<b>1</b> 2	
L	Empty fuel system or add Stabilizer						<b>V</b>

- \* (if so equipped)
- 1 Change more often if operating under a heavy load or in high outdoor temperatures.
- **\*\*** Electric-Start mowers
- \*\*\* Power-Propelled mowers
- 2 Service more often if operating in dirty or dusty conditions.
- 3 Replace blades more often when mowing in sandy soil.
- \*\*\*\* Use a scraper to clean under deck
- 4 Charge 48 hours at end of season. 5 - And after each 5 hours of use.

# GENERAL RECOMMENDATIONS

The warranty on this lawn mower does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain mower as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain your unit.

At least once a season, check to see if you should make any of the adjustments described in the Service and Adjustments section of this manual.

- At least once a year, replace the spark plug, clean or replace air filter element and check blade for wear. A new spark plug and clean/new air filter element assure proper air-fuel mixture and help your engine run better and last longer.
- Follow the maintenance schedule in this manual.

#### **BEFORE EACH USE**

- Check engine oil level. 1.
- Check for loose fasteners. 2.

#### LUBRICATION

Keep unit well lubricated (See "LUBRICATION CHART").

IMPORTANT: DO NOT OIL OR GREASE PLASTIC WHEEL BEARINGS. VISCOUS LUBRICANTS WILL ATTRACT DUST AND DIRT THAT WILL SHORTEN THE LIFE OF THE SELF-LUBRICATING BEARINGS. IF YOU FEEL THEY MUST BE LUBRICATED, USE ONLY A DRY, POWDERED GRAPHITE TYPE LUBRICANT SPARINGLY.

# LUBRICATION CHART



**1** SPRAY LUBRICANT

9 (2) SEE "ENGINE" IN MAINTENANCE SECTION

# MAINTENANCE

# LAWN MOWER

Always observe safety rules when performing maintenance.

#### TIRES

- Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage.

#### **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. 10)

- 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. 10)

- 1. Position the blade adapter on the engine crankshaft. Be sure key in adapter and crankshaft keyway are aligned.
- 2. Position the 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.

#### TO SHARPEN BLADE

**NOTE**: We do not recommend sharpening blade - but if you do, be sure the blade is 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. 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.





#### **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 mower model number when ordering.

# ENGINE

Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customers expense, may be performed by any non-road engine repair establishment or individual. Warranty repairs must be performed by an authorized engine manufacturer's service outlet.

#### LUBRICATION

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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.



**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.

# MAINTENANCE

#### TO CHANGE ENGINE OIL (See Figs. 11 & 12)

**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.
- Remove oil fill cap/dipstick; 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.



FIG. 11

- 4. Wipe off any spilled oil from lawn mower or side of engine.
- 5. Fill engine with oil. Slowly pour oil down the oil fill spout into the engine.
- 6. Wait one minute to allow oil to settle. Use guage on oil fill cap/dipstick for checking level. Insert dipstick into the tube and rest the oil fill cap on the tube. DO NOT thread the cap into the tube when taking reading.
- 7. Continue adding small amounts of oil and rechecking the dipstick until it reads full. DO NOT overfill, or engine will smoke on startup.
- 8. Always be sure to retighten oil fill cap/dipstick before starting engine.
- 9. Reconnect spark plug wire to spark plug.





# AIR FILTER (See Fig. 13)

Your engine will not run properly and may be damaged by using a dirty air filter. Replace the air filter every 100 hours of operation or every season, whichever occurs first. Service air cleaner more often under dusty conditions.

#### **TO CLEAN AIR FILTER**

- 1. 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.



FIG. 13

#### MUFFLER

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**

**IMPORTANT:** FOR BEST PERFORMANCE, KEEP MOWER HOUSING FREE OF BUILT-UP GRASS AND TRASH. CLEAN THE UNDERSIDE OF YOUR MOWER AFTER EACH USE.



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 and wheels free of all 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.

# 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.

## 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.

## TO ADJUST HANDLE (See Figs. 14 thru 16)

The handle can be mounted in a high or low position. The mounting holes in the bottom of lower handle are off center for raising or lowering the handle.

- 1. Remove upper handle and all wire tie(s) securing cable(s) to lower handle.
- 2. Remove hairpin cotters from lower handle bracket mounting pin.
- 3. Squeeze lower handle in to remove it from mounting pins.
- 4. Turn lower handle over to raise or lower handle.
- 5. Squeeze lower handle in and position holes onto mounting pins on handle bracket.
- 6. Reassemble upper handle and all parts removed from lower handle.



FIG. 14







# ENGINE

FIG. 16

Maintenance, repair, or replacement of the emission control devices and systems, which are being done at the customers expense, may be performed by any non-road engine repair establishment or individual. Warranty repairs must be performed by an authorized engine manufacturer's service outlet.

# **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 an authorized service center for repair and adjustment.

# CARBURETOR

Your carburetor is not adjustable. If your engine does not operate properly due to suspected carburetor problems, take your lawn mower to an authorized service center for repair and/or adjustment.

**IMPORTANT:** NEVERTAMPER 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 AUTHORIZED SERVICE CENTER, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY AD ILISTMENTS.

**12** MAKE ANY NECESSARY ADJUSTMENTS.

# STORAGE

Immediately prepare your lawn 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. 17 and 18)

You can fold your lawn mower handle for storage.

- 1. Squeeze the bottom ends of the lower handle toward each other until the lower handle clears the handle bracket, then move handle forward.
- 2. Loosen upper handle mounting bolts enough to allow upper handle to be folded back.

**IMPORTANT:** WHEN FOLDING THE HANDLE FOR STORAGE OR TRANSPORTATION, BE SURE TO FOLD THE HANDLE AS SHOWN OR YOU MAY DAMAGE THE CONTROL CABLES.

• When setting up your handle from the storage position, the lower handle will automatically lock into mowing position.



FIG. 17 MOWING OPERATOR POSITION PRESENCE CONTROL BAR FOLD FORWARD FOR STORAGE UPPER HANDLE HANDLE KNOB LOWER HANDLE

# ENGINE FUEL SYSTEM

**IMPORTANT**: IT IS IMPORTANT TO PREVENT GUMDEPOSITS 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.

- 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**

Drain oil (with engine warm) and replace with clean engine oil. (See "ENGINE" in the Maintenance section of this manual).

#### CYLINDER

- 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.

# 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.



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.

# **TROUBLESHOOTING POINTS**

PROBLEM	CAUSE		CORRECTION
Does not start	<ol> <li>Dirty air filter.</li> <li>Out of fuel.</li> <li>Stale fuel.</li> </ol>	2.	Clean/replace air filter. Fill fuel tank. Empty fuel tank and refill tank with fresh, clean gasoline.
	4. Water in fuel.	4.	Empty fuel tank and refill tank with fresh, clean gasoline.
	<ol> <li>Spark plug wire is disconnected.</li> <li>Bad spark plug.</li> </ol>		Connect wire to plug. Replace spark plug.
	<ol> <li>Loose blade or broken blade adapter.</li> <li>Control bar in released position.</li> </ol>	7.	Tighten blade bolt or replace blade adapter Depress control bar to handle.
	<ol> <li>9. Control bar defective.</li> <li>10. Fuel valve lever (if equipped) in OFF position.</li> </ol>	9.	Replace control bar. Turn fuel valve lever to the ON position.
	11. Weak battery (if equipped).	11.	Charge battery. Connect battery to engine.
Loss of power	1. Rear of lawn mower housing or cutting	1.	Raise cutting height.
	<ul><li>blade dragging in heavy grass.</li><li>2. Cutting too much grass.</li><li>2. Dirty air filter</li></ul>		Raise cutting height.
	<ol> <li>Dirty air filter.</li> <li>Buildup of grass, leaves and trash under mower.</li> </ol>		Clean/replace air filter. Clean underside of mower housing.
	<ol> <li>Too much oil in engine.</li> <li>Walking speed too fast.</li> </ol>		Check oil level. Cut at slower walking speed.
Poor cut –	<ol> <li>Worn, bent or loose blade.</li> <li>Wheel heights uneven.</li> </ol>		Replace blade. Tighten blade bolt. Set all wheels at same height.
uneven	<ol> <li>Wheel heights theven.</li> <li>Buildup of grass, leaves and trash under mower.</li> </ol>		Clean underside of mower housing.
Excessive vibration	<ol> <li>Worn, bent or loose blade.</li> <li>Bent engine crankshaft.</li> </ol>		Replace blade. Tighten blade bolt. Contact a qualified service center.
Starter rope	1. Engine flywheel brake is on when control		Depress control bar to upper handle before
hard to pull	bar is released. 2. Bent engine crankshaft.		pulling starter rope. Contact a qualified service center.
	<ol> <li>Blade adapter broken.</li> <li>Blade dragging in grass.</li> </ol>	3.	Replace blade adapter. Move lawn mower to cut grass or other hard surface before starting.
Grass catcher	1. Cutting height too low.	1.	Raise cutting height.
not filling (if so equipped)	<ol> <li>2. Lift on blade worn off.</li> <li>3. Catcher not venting air.</li> </ol>	2. 3.	Replace blade. Clean grass catcher.
Hard to push	<ol> <li>Grass is too high or wheel height is too low.</li> <li>Rear of lawn mower housing or cutting</li> </ol>		Raise cutting height. Raise rear of lawn mower housing one (1)
	<ol> <li>blade dragging in heavy grass.</li> <li>Grass catcher too full.</li> </ol>		setting higher. Empty grass catcher.
	<ol> <li>4. Handle height position not right for you.</li> </ol>		Adjust handle height to suit.

# **SERVICE NOTES**

# ROTARY LAWN MOWER - - MODEL NUMBER 5521CM (96133000301) PRODUCT NUMBER 961 33 00-03



# ROTARY LAWN MOWER - - MODEL NUMBER 5521CM (96133000301) PRODUCT NUMBER 961 33 00-03

KEY NO.	PART NO.	DESCRIPTION
1	532 40 29-49	Control Bar
2	532 19 78-08	Upper Handle (Includes Foam Grip)
3	532 17 41-10	Lower Handle
4	532 19 47-88	Rope Guide
5	532 13 20-04	Locknut, Hex 1/4-20
6	532 19 15-74	Handle Bolt
7		Wire Tie
8		Hex Bolt 5/16-18 x 3/4
9 10	532 15 41-32	Hinge Bracket Assembly
	532 18 55-89 532 17 65-56	Mulcher Door Engine Zone Control Cable
	532 75 06-34	Hex Washer Head Screw #10-24 x 1/2
	532 12 52-03	Up-Stop Bracket
	532 18 55-88	Handle Knob
	532 05 17-93	Hairpin Cotter
	532 19 17-30	Nut, Hex, Flangelock 1/4-20
17	532 17 41-12	Support Bracket
18	817 60 04-06	Screw
	532 18 92-77	Axle Arm Assembly, Front, LH
	532 18 92-78	Axle Arm Assembly, Front, RH
	532 18 90-08	Rear Skirt
	532 16 85-99	Selector Spring, Front
	532 18 66-12	Kit, Rear Door (Includes Springs)
	873 93 05-00	Locknut, Hex 5/16-18
	532 40 29-45 532 40 29-46	Handle Bracket Assembly, LH
	817 60 04-06	Handle Bracket Assembly, RH Screw 1/4-20 x 3/8
	532 15 21-24	Spring, Torsion
	532 16 57-04	Wheel Adjusting Bracket, Front
	532 18 39-01	Spacer
	532 18 55-95	Discharge Deflector
32	532 40 29-47	Selector Spring, Rear
33	532 18 55-74	Selector Knob
34	532 18 36-61	Axle Arm Assembly, Rear, LH

KEY NO.		DESCRIPTION
35	532 16 67-85	Locknut, Hex 5/16-18
36	532 16 08-28	Shoulder Bolt 5/16-18
37	532 40 05-42	Wheel & Tire Assembly, Front 8 x 1-3/4
38	532 16 43-62	Shoulder Bolt
39	532 14 52-12	Nut, Hex, Flangelock
40	532 19 46-42	Frame, Grassbag
41	532 08 86-52	Hinge Screw
42	532 16 57-66	Spring, Rear Door, LH
43	532 16 57-67	Spring, Rear Door, RH
44	532 18 58-19	Rod, Rear Door
45	532 15 04-06	Hex Head Thread Rolling Screw 3/8-16 x 1
46	532 10 73-39	Danger Decal
47	532 75 11-53	Nut, Hex
48	532 18 36-62	Axle Arm Assembly, Rear, RH
49	532 40 29-48	Wheel & Tire Assembly, Rear 12 x 1-3/4
50	532 19 47-15	Grassbag
51	532 14 72-86	Hinge Rod
52	532 16 36-62	Kit, Lawn Mower Housing Assembly
-0		(Includes Key Numbers 17, 18 and 46)
53	532 85 10-84	Hex Head Screw 3/8-24 x 1-3/8 Grade 8
54	532 85 02-63	Helical Lockwasher
55	532 85 10-74	Hardened Washer
56	532 18 90-28	21" Blade
57	532 19 37-07	I I
59		Engine, Honda, Model Number GCV160 (Order parts from engine manufacturer)
61	522 00 20 22	Nut, Hex, Flangelock
62	532 08 39-23 873 80 04-00	Nut, Hex, Nylock 1/4-20
65	532 08 83-48	Washer, Flat
66	532 19 74-80	O-Ring
67	532 19 79-91	Clip, Cable
68	532 16 42-65	Grip, Foam
	532 16 23-00	Warning Decal (not shown)
	<b>532 10 23-00</b> <b>532 40 33-90</b>	Owner's Manual, English / French
	002 70 00-30	

**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.

sqvarna	SECTION 1: LIMITED WARRANTY	Husqvarma Forest & Garden Company ("Husqvarma") warrants Husqvarma product to the original pur- chaser to be free from defects in material and workmanship from the date of purchase for the "Warranty (1)Accident, abuse, misuse, negligence and neglect, including stale fuel, dirt, abrasives, moisture, rust, Period" of the product as set forth below: <b>Lifetime Warranty:</b> All tiller tines against breakage, trimmer shafts, ignition coils and modules on hand theild product.	<ol> <li>Year Warranty: Spindles (on Zero Turn Riders and Commercial Walk-Behinds)</li> <li>(3)Alterations on 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.</li> </ol>	2 Year NON-COMMERCIAL Warranty: Automatic Mower, Riding lawn mowers, yard and garden tractors, walk behind mowers, itilers, chain saws, trimmers, brushoutters, clearing saws, snow blowers, backpack blowers, backpack blowers, backpack blowers, backpack blowers, indege trimmers, electrical products and power-assist collection systems for DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY OR TAEDE ANTARDIA TO TAE EVTENT PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER, HUSOVARNA SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY OR TAEDE ANTARDIA OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY OR MEDICATS EXCEPT	Emission control system components necessary to comply with CARB-TIER-II and EPA regulations, TY OR FITNESS FOR A PARTICULAR PURPORE ON THESE PRODUCTS IS IMITED IN DURATION TO except for those components which are part of engine systems manufactured by third party engine manu-facturers for which the purchaser has received a separate warranty with product information supplied at the purchase.	1 Year Warranty:         Power cutters, stump grinder, pole pruners and pole saws for non-institutional or non-institutional or non-income producing use. All trimmers, brushcutters, clearing saws, hovering trimmers, stick edgers, backpack blowers, hand held blowers, hedge trimmers, power-assist collection grinder use of to commercial. Institutional. professional or income producing purposes or use.         Some states do not allow the exclusion of incidental or consequential damages, or limitations on how long fessional. non-institutional or non-income producing use.         Some states do not allow the exclusion of incidental or consequential damages, or limitations or how long fessional. non-institutional or non-income producing use.         Initiations on consequential damages, or limitations on exclusions may not apply to you. This warranty gives systems used for commercial. institutional. professional or income producing purposes or use.         Some states do not allow the exclusion of incidental or consequential damages, or limitations or exclusions may not apply to you.         This warranty gives	Batteries have a one-year prorated limited warranty with 100% replacement during the first 6 months. <u>SECTION 5: CUSTOMER RESPONSIBILITIES</u>	90 Day Warranty:       Automatic Mower, Chain saws, power cutters, stump ginders, pole saws, pole pruners, on the maintenance section of the Owner's/Operator's manual. Should an operational problem or failure occur, the product used for <u>commercial institutional. professional or income producing purposes or use except as otherwise provided herein.</u> The product must exhibit reasonable care, maintenance, operation, storage and general upkeep as written as written as written and 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.	<ul> <li>Hustoware 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 appare/boot is not covered under warranty.</li> <li>ECTION 6: PROCEDURE TO OBTAIN WARRANTY CONSIDERATION</li> <li>ECTION 6: PROCEDURE TO OBTAIN WARRANTY CONSIDERATION</li> <li>It is the Owner's and Dealer's responsibility to make certain that the Warranty Registration Card is properly be followed as stated by the manufacturer on the care label. The fit of the protective appare/boot is not covered under warranty.</li> </ul>	30 Day Warranty: Replacement parts, accessories including bars and chains, tools and display items.       Proof of purchase must be presented to the authorized Husqvarma dealer in order to obtain warranty ser-         30 Day Warranty: Replacement parts, accessories including bars and chains, tools and display items.       Proof of purchase must be presented to the authorized Husqvarma dealer in order to obtain warranty ser-         SECTION 2: HUSQVARNA'S OBLIGATIONS UNDER THE WARRANT       Vice. This proof must include date purchased, model number, serial number, and complete name and address         Husdvarma will repair or replace defective components without charge for parts or labor if a component       of the selling dealer.		The following items are not covered by this warranty: (1)Normal customer maintenance items which become worn through normal regular use, including, but Pages" of the local telephone directory or by calling 1-800-HUSKY62 for a dealer in your area. 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)Equine and office systems on the manufactured by the systems are covered by the respective manufacturear's warranty as nonvided in writing with the availing information sumplied at the time of nur- manufacturear's warranty as nonvided in writing with the availing information sumplied at the time of nur-		I rantv should be sent to the manufacturer: and
WARRANTY STATEMENT	AND LIMITATIONS	<ul> <li>of defects resulting from the following:</li> <li>gence and neglect, including stale fuel, dirt, abrasives, moisture, rust ion due to incorrect storage or use habits;</li> <li>ne unit in accordance with the Owner's/Operator's manual or instruc- ne unit.</li> </ul>	Alterations or modifications that change the intended use of the product or affects the product's per- Alterations or modifications that change the intended use of the product to fail to comply with any applicable formance, operation, safety, or durability, or causes the product to fail to comply with any applicable laws; or: Additional damage to parts or components due to continued use occurring after any of the above.	OVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY C HALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTI XPRESS OR IMPLIED WARRANTY ON THESE PRODUCTS EXCEF ADD IC AGE 1 ANY IMPLIED WARD ANTY OF MEDCUANTA OR	AR PURPOSE ON THESE PRODUCTS IS LIMITED IN DURATION TO THE PURPOSE ON THESE PRODUCTS IS LIMITED IN DURATION TO NED IN THE LIMITED WARRANTY STATEMENT. HUSQVARNA R OR IMPROVE THE DESIGN OF THE PRODUCT WITHOUT NOTIC FION TO UPDATE PREVIOUSLY MANUFACTURED PRODUCTS.	usion of incidental or consequential damages, or limitations on how lo we limitations or exclusions may not apply to you. This warranty giv y also have other rights which vary from state to state.	<b>tesponsibilities</b>	le care, maintenance, operation, storage and general upkeep as writt ner's/Operator's manual. Should an operational problem or failure occ delivered as is to an authorized Husqvarna dealer for evaluation. Prc 6, rests solely with the customer.	TO OBTAIN WARRANTY CONSIDERATION onsibility to make certain that the Warranty Registration Card is prope cest & Garden Company. This card should be mailed within ten (10) da confirm the warranty and to facilitate post-sale service.	ted to the authorized Husqvarna dealer in order to obtain warranty se chased, model number, serial number, and complete name and addre	inty, the product believed to be defective must be delivered to an a ly manner, no later than thirty (30) days from date of the operation be delivered at the owner's expense. Pick-up and delivery charges a	norized Husqvarna dealer can be normally located through the "Yell ry or by calling 1-800-HUSKY62 for a dealer in your area.	HUSQVARNA 7349 Statesville Road Charlotte NC 28269	531 83 81-23 2002	