Walk Mower

7021 RS
96143003001

Operator'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 INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

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 mow on wet grass. Reduced footing could cause slipping.
- Do not trim near drop-offs, ditches or embankments.
- Do not trim excessively steep slopes.
- Do not mow on wet grass. Reduced footing could cause slipping.
- Stop the blade(s) when crossing gravel drives, walks, or roads.
- Do not operate the mower without proper guards, plates, grass catcher or other safety protective devices in place.
- 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 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 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.

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.
SAFETY RULES

- 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.
- 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.

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”.

PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Gasoline Capacity and Type</td>
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<td>Oil Type (API SG–SL)</td>
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<tr>
<td>Oil Capacity</td>
<td>20 Ounces</td>
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<tr>
<td>Spark Plug Gap</td>
<td>.030&quot;</td>
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<tr>
<td>Blade Bolt Torque</td>
<td>35-40 ft. lbs. (47-54 N-m)</td>
</tr>
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</table>

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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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 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.

**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.

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. 3)*
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.

**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.

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.

DRIVE CONTROL LEVER – used to engage power-propelled forward motion of lawn mower.

MULCHER DOOR – allows conversion to discharge or bagging operation.

MULCHER PLUG – located at the discharge opening, must be removed when converting to bagging operation.

STARTER HANDLE – used for starting the engine.

IMPORTANT: This lawn mower is shipped WITHOUT OIL OR GASOLINE in the engine.
DRIVE CONTROL ADJUSTMENT (See Fig. 5)
Over time, the drive control system may become “loose”, resulting in decreased speed. 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.

TO ADJUST CUTTING HEIGHT (See Fig. 6)
All four wheels are adjusted by a single lever.
1. Pull adjuster lever toward wheel. To raise mower, move lever forward to desired position. To lower mower, move the lever toward the rear.

NOTE: If after releasing the drive control the mower will not roll backwards, push the mower forward slightly to disengage drive wheels.

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.

DRIVE CONTROL (See Fig. 4)
• 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.

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.
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.

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.

FIG. 8

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. To convert to bagging or discharging:

REAR BAGGING (See Fig. 9)

1. Open rear door and remove mulcher plug. Store mulcher plug in a safe place.
2. You can now install the grass catcher.
3. To convert to mulching or discharging operation, install mulcher plug into rear discharge opening of mower.

FIG. 9

SIDE DISCHARGING (See Fig. 10)

1. Mulcher plug must be installed into rear discharge opening of mower.
2. Open mulcher door and install discharge deflector under door as shown.
3. Mower is now ready for discharging operation.
4. 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.
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:**
- 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 (See Fig. 11)

- Fill fuel tank to bottom of tank filler neck. Do not over-fill. 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

- To stop engine, release operator presence control bar.

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.

**NOTE:** Your engine is equipped with an automatic choke system. No priming or choking is required before starting.

- To start engine, hold operator presence control bar down to the handle and pull starter handle quickly. Do not allow starter rope to snap back.

**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**

**IMPORTANT:** FOR BEST PERFORMANCE, KEEP MOWER HOUSING FREE OF BUILT-UP GRASS AND TRASH. SEE “CLEANING” IN THE 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. 12). 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. 12**

- 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 to south one week then east to west the next week. This will help prevent matting and graining of the lawn.
**MAINTENANCE**

### 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**

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

**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.

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### LUBRICATION CHART

- **ENGINE OIL**
- **MULCHER DOOR HINGE PIN**
- **REAR DOOR HINGE**
- **HANDLE BRACKET MOUNTING PINS**

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### MAINTENANCE SCHEDULE

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<tr>
<th>Item</th>
<th>BEFORE EACH USE</th>
<th>AFTER EACH USE</th>
<th>EVERY 10 HOURS</th>
<th>EVERY 25 HOURS OR SEASON</th>
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</tbody>
</table>

* * Electric-Start mowers
** ** Power-Propelled mowers
*** *** Use a scraper to clean under deck

1. Change more often if operating under a heavy load or in high outdoor temperatures.
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.
5. And after each 5 hours of use.
LAWN MOWER
Always observe safety rules when performing any main-
tenance.

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

DRIVE WHEELS
Check rear drive wheels each time you mow to be sure they
move freely. The wheels not turning freely means trash,
grass cuttings, etc., may be inside the drive wheel and dust
cover area and must be cleaned out to free drive wheels.
If necessary to clean drive wheels, check both rear wheels.

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 hous-
ing 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 wash-
er 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.

TO SHARPEN BLADE
NOTE: We do not recommend sharpening blade - but if
you do, be sure the blade is balanced.
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.
  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 deter-
rioration. Through normal use it will wear. If catcher
needs replacing, replace only with approved replace-
ment 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 Pre-
mium 1 Grease, Part No. 750369. Do not substitute.
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.

<table>
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<tr>
<th>SAE VISCOSITY GRADES</th>
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<tr>
<td>5W-30</td>
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<tr>
<td>SAE 30</td>
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</table>

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.

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.
5. Slowly pour oil down the oil fill spout, stopping every few ounces to check the oil level with the dipstick.
6. Stop adding oil when you reach the FULL mark on the dipstick. Wait a minute to allow oil to settle.
7. 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.
8. Always be sure to retighten dipstick before starting engine.
9. Reconnect spark plug wire to spark plug.

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.

1. Loosen screws and remove cover.
2. Carefully remove cartridge.
3. Clean by gently tapping on a flat surface. If very dirty, replace cartridge.

4. Install cartridge, then replace cover.

TO CLEAN AIR FILTER
CAUTION: Petroleum solvents, such as kerosene, are not to be used to clean cartridge. They may cause deterioration of the cartridge. Do not use pressurized air to clean or dry cartridge.

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 UNDER 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 / 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.

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.
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 REMOVE DRIVE BELT (See Fig. 16)
1. Remove drive cover.
2. Remove spring and belt keeper.
3. Remove belt from gearcase pulley.
4. Turn lawn mower on its side with air filter and carburetor up.
5. Remove blade, engine pulley and debris shield.
6. Remove engine pulley and belt from debris shield.

TO REPLACE DRIVE BELT (See Fig. 17)
1. Place new drive belt in engine pulley and belt retainer of debris shield.
2. Route the other end of the new drive belt through hole in housing.
3. Reinstall debris shield.
4. Return mower to upright position.
5. Install new belt on gearcase pulley.
6. Reinstall belt keeper and spring.
7. Reinstall drive cover.

NOTE: Always use factory approved belt to assure proper fit and long life.
8. Turn lawn mower on its side with air filter and carburetor down.
9. Reinstall blade.

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.

CARBURETOR
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.

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.
STORAGE

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.

- 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.
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<td>Clean/replace air filter.</td>
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<td></td>
<td>Out of fuel.</td>
<td>Fill fuel tank.</td>
</tr>
<tr>
<td></td>
<td>Stale fuel.</td>
<td>Empty fuel tank and refill tank with fresh, clean gasoline.</td>
</tr>
<tr>
<td></td>
<td>Water in fuel.</td>
<td>Empty fuel tank and refill tank with fresh, clean gasoline.</td>
</tr>
<tr>
<td></td>
<td>Spark plug wire is disconnected.</td>
<td>Connect wire to plug.</td>
</tr>
<tr>
<td></td>
<td>Bad spark plug.</td>
<td>Replace spark plug.</td>
</tr>
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<td></td>
<td>Loose blade or broken blade adapter.</td>
<td>Tighten blade bolt or replace blade adapter.</td>
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<td>Control bar in released position.</td>
<td>Depress control bar to handle.</td>
</tr>
<tr>
<td></td>
<td>Control bar defective.</td>
<td>Replace control bar.</td>
</tr>
<tr>
<td></td>
<td>Fuel valve lever (if equipped) in OFF position.</td>
<td>Turn fuel valve lever to the ON position.</td>
</tr>
<tr>
<td></td>
<td>Weak battery (if equipped).</td>
<td>Charge battery.</td>
</tr>
<tr>
<td></td>
<td>Disconnected battery connector (if equipped).</td>
<td>Connect battery to engine.</td>
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<td>Loss of power</td>
<td>Rear of lawn mower housing or cutting blade dragging in heavy grass.</td>
<td>Raise cutting height.</td>
</tr>
<tr>
<td></td>
<td>Cutting too much grass.</td>
<td>Raise cutting height.</td>
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<tr>
<td></td>
<td>Dirty air filter.</td>
<td>Clean/replace air filter.</td>
</tr>
<tr>
<td></td>
<td>Buildup of grass, leaves and trash under mower.</td>
<td>Clean underside of mower housing.</td>
</tr>
<tr>
<td></td>
<td>Too much oil in engine.</td>
<td>Check oil level.</td>
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<td></td>
<td>Walking speed too fast.</td>
<td>Cut at slower walking speed.</td>
</tr>
<tr>
<td>Poor cut – uneven</td>
<td>Worn, bent or loose blade.</td>
<td>Replace blade.</td>
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<tr>
<td></td>
<td>Wheel heights uneven.</td>
<td>Set all wheels at same height.</td>
</tr>
<tr>
<td></td>
<td>Buildup of grass, leaves and trash under mower.</td>
<td>Clean underside of mower housing.</td>
</tr>
<tr>
<td>Excessive vibration</td>
<td>Worn, bent or loose blade.</td>
<td>Replace blade.</td>
</tr>
<tr>
<td></td>
<td>Bent engine crankshaft.</td>
<td>Contact a Husqvarna service center.</td>
</tr>
<tr>
<td>Starter rope hard to pull</td>
<td>Engine flywheel brake is on when control bar is released.</td>
<td>Depress control bar to upper handle before pulling starter rope.</td>
</tr>
<tr>
<td></td>
<td>Bent engine crankshaft.</td>
<td>Contact a Husqvarna service center.</td>
</tr>
<tr>
<td></td>
<td>Blade adapter broken.</td>
<td>Replace blade adapter.</td>
</tr>
<tr>
<td></td>
<td>Blade dragging in grass.</td>
<td>Move lawn mower to cut grass or other hard surface before starting.</td>
</tr>
<tr>
<td>Grass catcher not filling (if so equipped)</td>
<td>Cutting height too low.</td>
<td>Raise cutting height.</td>
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<tr>
<td></td>
<td>Lift on blade worn off.</td>
<td>Replace blade.</td>
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<tr>
<td></td>
<td>Catcher not venting air.</td>
<td>Clean grass catcher.</td>
</tr>
<tr>
<td>Hard to push</td>
<td>Grass is too high or wheel height is too low.</td>
<td>Raise cutting height.</td>
</tr>
<tr>
<td></td>
<td>Rear of lawn mower housing or cutting blade dragging in heavy grass.</td>
<td>Raise rear of lawn mower housing one (1) setting higher.</td>
</tr>
<tr>
<td></td>
<td>Grass catcher too full.</td>
<td>Empty grass catcher.</td>
</tr>
<tr>
<td></td>
<td>Handle height position not right for you.</td>
<td>Adjust handle height to suit.</td>
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<tr>
<td>Loss of drive (or slowing of drive speed)</td>
<td>Belt wear.</td>
<td>Check/replace drive belt.</td>
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<td></td>
<td>Belt off of pulley.</td>
<td>Check/reinstall drive belt.</td>
</tr>
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<td></td>
<td>Drive cable worn or broken.</td>
<td>Put belt on pulleys / replace belts if broken.</td>
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<td></td>
<td>“Loose” drive control system.</td>
<td>Adjust drive control.</td>
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<td>DESCRIPTION</td>
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<td>26</td>
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**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.
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<td>25</td>
<td>532 16 45-55</td>
<td>Retainer, Drive Assembly, Stamped</td>
<td>58</td>
<td>532 19 74-80</td>
<td>O-Ring</td>
</tr>
<tr>
<td>26</td>
<td>532 05 78-08</td>
<td>Screw, Tapping, Hex Head 1/4-20 x 3/4</td>
<td>59</td>
<td>532 19 74-80</td>
<td>O-Ring</td>
</tr>
<tr>
<td>27</td>
<td>532 41 07-83</td>
<td>Cover Drive</td>
<td>60</td>
<td>532 19 74-80</td>
<td>O-Ring</td>
</tr>
<tr>
<td>28</td>
<td>532 41 07-37</td>
<td>Shaft, Worm</td>
<td>61</td>
<td>532 19 74-80</td>
<td>O-Ring</td>
</tr>
<tr>
<td>29</td>
<td>532 75 06-34</td>
<td>Screw, Threaded, Rolled #10-25 x 1/2</td>
<td>62</td>
<td>532 19 74-80</td>
<td>O-Ring</td>
</tr>
<tr>
<td>30</td>
<td>812 00 00-58</td>
<td>E-Ring 7/16</td>
<td>63</td>
<td>532 19 74-80</td>
<td>O-Ring</td>
</tr>
<tr>
<td>31</td>
<td>532 40 51-05</td>
<td>Wheel &amp; Tire Assembly, Rear</td>
<td>64</td>
<td>532 19 74-80</td>
<td>O-Ring</td>
</tr>
<tr>
<td>32</td>
<td>532 40 48-45</td>
<td>Pawl, Drive</td>
<td>65</td>
<td>532 19 74-80</td>
<td>O-Ring</td>
</tr>
<tr>
<td>33</td>
<td>532 41 31-05</td>
<td>Wheel &amp; Tire Assembly, Rear</td>
<td>66</td>
<td>532 19 74-80</td>
<td>O-Ring</td>
</tr>
<tr>
<td>34</td>
<td>532 85 12-26</td>
<td>Washer</td>
<td>67</td>
<td>532 19 74-80</td>
<td>O-Ring</td>
</tr>
<tr>
<td>35</td>
<td>532 41 09-22</td>
<td>Shaft Assembly, Rear</td>
<td>68</td>
<td>532 19 74-80</td>
<td>O-Ring</td>
</tr>
</tbody>
</table>

**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.
Husqvarna 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 (Parts and Labor): All tiller tines and trimmer shafts against breakage. Proof of purchase required.

Lifetime Warranty ("PARTS ONLY" after initial warranty expiration): Ignition coils and modules on handheld product.

Proof of purchase required.

Warranty Schedule for Turf Care Equipment - Zero Turn Riders

1. Warranty applies to units sold after August 1, 2005. Also applies to units factory-equipped with R.O.P.S.
2. EZ Zero Turn Riders: 3 year consumer warranty or 600 hours of use (when used solely at the owner’s residence). EZ Zero Turn Riders: 1 year commercial warranty or 600 hours of use.
3. LZ & BZ Zero Turn Riders: 5 year consumer warranty or 1,500 hours of use (when used solely at the owner’s residence).
4. LZ & BZ Zero Turn Riders: 5 year commercial warranty or 1,500 hours of use.
5. 3 Year or 1,500 Hour Commercial Use Warranty: Spindles on zero turn riders, hydraulic pumps and wheel motors.
6. Warranty Schedule for Turf Care Walk Behind Units - W, WG & WH Zero Turn Riders - 3 year consumer and commercial warranty. New warranty applies to units sold after August 1, 2005. Also applies to units factory-equipped with R.O.P.S.
7. 2 Year COMMERCIAL and CONSUMER Warranty: all Husqvarna ground-engaging commercial equipment.

Warranty Schedule for Consumer Turf Care Equipment:

1. 2 Year Consumer Warranty: Automatic mower, all Residential Zero Turn Riders, all lawn, yard and garden tractors, all noncommercial walk behind mowers, tillers, chain saws, trimmers, brushcutters, cleaning saws, snow blowers, handheld blowers, backpack blowers, hedge trimmers, electrical products and power-assist collection systems for noncommercial, nonprofessional, noninstitutional or nonincome producing use, except as herein stated. All consumer product use must have been limited to the owner’s residence.

Warranty Schedule for Consumer Forest & Garden Equipment:

1. 2 Year Consumer Warranty: all consumer chain saws, trimmers, brushcutters, cleaning saws, handheld blowers, backpack blowers, hedge trimmers, electric products for noncommercial, nonprofessional, noninstitutional or nonincome producing use, except as herein stated. All consumer product use must have been limited to the owner’s residence.
2. 2 Year or 2,000 Hour Powertrain & 1 Year or 1,000 Hour Body Warranty: Husqvarna Utility Vehicles.
3. 5 Year Warranty: Power cutters, stump grinders, pole pruners and pole saws for non-commercial, non-professional, non-institutional, non-municipality or non-income producing use. All 300 series trimmers, brushcutters, cleaning saws, hedging trimmers, stick edgers, backpack blowers, hand held blowers, hedge trimmers, power-assist collection systems for commercial, institutional, professional or income producing purposes or use.
4. 1 Year Conditional Warranty: Chain saw crankshafts for commercial/professional use (parts and labor). Saw must be operated with Husqvarna XP 2 cycle oil.
5. 90 Day Commercial Warranty: Automatic mower, chain saws, 100 series trimmers, power cutters, stump grinders, pole saws, pole pruners, snow throwers, model series 580 & 600 walk-behind mowers, or any Husqvarna product used for commercial, institutional, professional, municipal or income producing purposes or use except as otherwise provided herein.

Batteries: 1 year prorated limited warranty with 100% replacement during the first 6 months.

Rental Warranty: 90 days on all applicable professional equipment reference warranty time period chart located in the back of the Retailer Warranty Policy & Procedure Manual.

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. Proof of purchase 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. Emission control system components necessary to comply with CARB-TIER II and EPA regulations, except for those components which are part of engine systems manufactured by third party engine manufacturers for which the purchaser has received a separate warranty with product at time of purchase.

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, clutch, clutch drums, filters, guide bars, lubricants, rewind springs, saw chain, spark plugs, starter ropes and tires;
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;
5. Commercial or consumer mowing decks with sand abrasion damage;
6. Emission Control System components necessary to comply with CARB-TIER II and EPA regulations which are manufactured by third party engine manufacturer.

Section 4: Exceptions and Limitations

This warranty shall be inapplicable to defects resulting from the following:

1. Accident, abuse, misuse, negligence and neglect, including state fuel, dirt, abrasives, moisture, rust, corrosion, or any adverse reaction due to incorrect storage or use practices;
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 retailer for evaluation. Proof of purchase, as explained in section C, rests solely with the customer.

Section 6: Procedure to Obtain Warranty Consideration

It is the Owner’s and Retailer’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 retailer in order to obtain warranty service. This proof must include date purchased, model number, serial number, and complete name and address of the selling retailer.

To obtain the benefit of this warranty, the product believed to be defective must be delivered to an authorized Husqvarna retailer 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. Downtime, pick-up and delivery charges are not covered by this warranty. An authorized Husqvarna retailer can be normally located through the "Yellow Pages" of the local telephone directory or by calling 1-800-HUSKY62 from a retailer in your area.