

Owner's Manual



# ROTARY LAWN MOWER

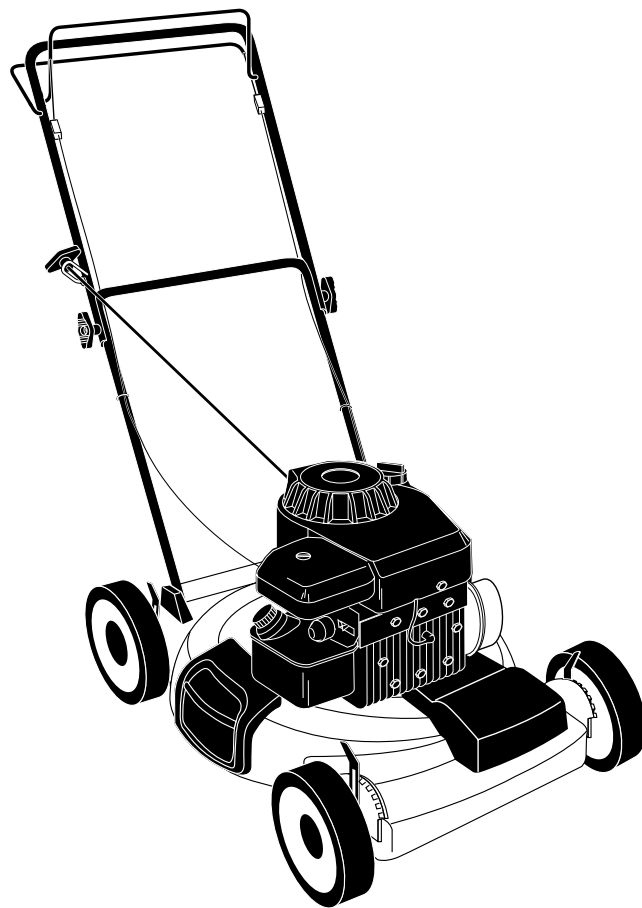
4.5 Horsepower

Power-Propelled

22" Side Discharge

Model No.

**944.365790**



## **CAUTION:**

Read and follow all  
Safety Rules and Instructions  
before operating this equipment

Sears Canada, Inc., Toronto, Ontario M5B 2B8

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## WARRANTY

### LIMITED TWO YEAR WARRANTY ON CRAFTSMAN POWER MOWER

For Two years from date of purchase Sears Canada, Inc. will repair or replace at Sears option free of charge parts which are defective as a result of material or workmanship.

### COMMERCIAL OR RENTAL USE:

Warranty on Power Mower (Gas) will be ninety (90) days from date of purchase if used for commercial or rental purposes.

This Warranty does NOT cover:

- Pre-delivery set-up.
- In-home service
- Expendable items which become worn during normal use, such as rotary mower blades, blade adapters, belts, air cleaners and spark plug.
- Repairs necessary because of operator abuse or negligence, including bent crankshafts and the failure to maintain the equipment according to the instructions contained in the owner's manual.

Warranty service is available by returning the Craftsman Power Mower to the nearest Sears Service Centre/Department in Canada. This warranty applies only while this product is used in Canada.

This warranty is in addition to any statutory warranty and does not exclude or limit legal rights you may have but shall run concurrently with applicable provincial legislation. Furthermore, some provinces do NOT allow limitation on how long an implied warranty will last so the above limitations may not apply to you.

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## SAFETY RULES

**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.**

**⚠ WARNING:** In order to prevent accidental starting when setting up, transporting, adjusting or making repairs, always disconnect spark plug wire and place wire where it cannot come in contact with plug.

**⚠ 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 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 bare-foot or wearing open sandals. Always wear substantial foot wear.

- Do not pull mower backwards unless absolutely necessary. Always look down and behind before and while moving backwards.
- Never direct discharged material toward anyone. Avoid discharging material against a wall or obstruction. Material may ricochet back toward the operator. Stop the blade when crossing gravel surfaces.
- Do not operate the mower without proper guards, plates, grass catcher or other safety protective devices in place.
- See manufacturer's instructions for proper operation and installation of accessories. Only use accessories approved by the manufacturer.
- 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; walk, never run.
- Disengage the self-propelled mechanism or drive clutch on mowers so equipped before starting the engine.
- 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 & 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 machine inside a closed area.
- Never make adjustments or repairs with the engine (motor) running. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never attempt to make wheel height adjustments while the engine 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 blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Do not change the engine governor setting or overspeed the engine.
- Maintain or replace safety and instruction labels, as necessary.

**⚠ WARNING:** This lawn mower is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator. A spark arrester for the muffler is available through your nearest Sears Service Centre (See the REPAIR PARTS section of this manual).

## PRODUCT SPECIFICATIONS

Serial Number:

Date of Purchase:

Gasoline Capacity / Type: 0,98 Litres (Unleaded Regular)

Oil Type (API-SF-SJ): SAE 30 (above 32°F/0°C); SAE 5W-30 (below 32°F/0°C)

Oil Capacity: 0,57 Litres

Spark Plug: Champion RJ19LM (Gap: 0,76 mm)

Blade Bolt Torque: 35-40 ft. lbs. / 47-54 N-m

- The model and serial numbers will be found on a decal on the rear of the lawn mower housing. Record both serial number and date of purchase in space provided above.

## ASSEMBLY / PRE-OPERATION

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

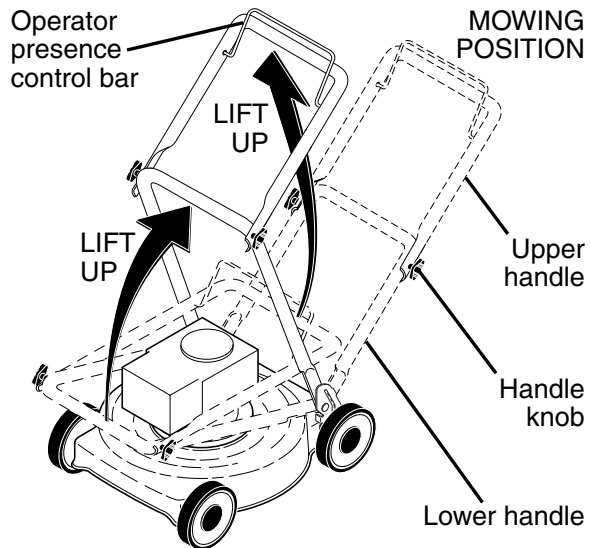
1. Remove loose parts included with mower.
2. Cut down two end corners of carton and lay end panel down flat.
3. Remove all packing materials except padding between upper and lower handle and padding holding operator presence control bar to upper handle.
4. Roll mower out of carton and check carton thoroughly for additional loose parts.

### HOW TO SET UP YOUR MOWER TO UNFOLD HANDLE

**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 lawn mower handle can be adjusted for your mowing comfort. Refer to "ADJUST HANDLE" in the Service and Adjustments section of this manual.



### TO INSTALL ATTACHMENTS

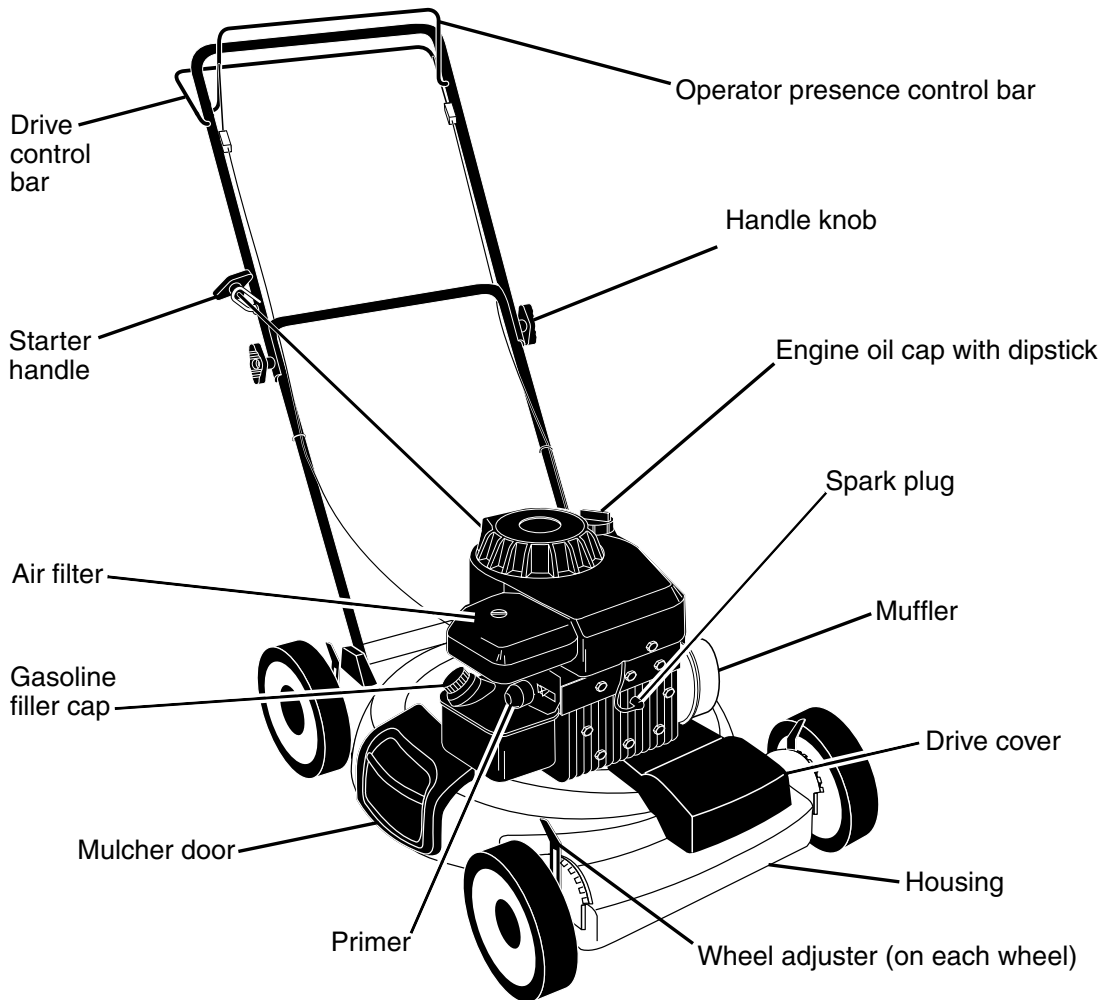
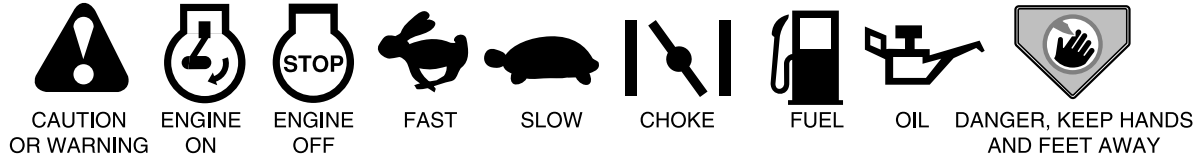
Your lawn mower was shipped ready to be used as a mulcher. To convert to discharging, see "TO CONVERT MOWER" in the Operation section of this manual.

# OPERATION

## KNOW YOUR LAWN MOWER

READ THIS OWNER'S MANUAL AND ALL 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

Sears 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 engine.

**Mulcher door** – allows conversion to discharging or bagging operation.

**Drive control bar** – used to engage power-propelled forward motion of lawn mower.

**Primer** – pumps additional fuel from the carburetor to the cylinder for use when starting a cold engine.



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 a standard safety glasses or wide vision safety mask worn 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

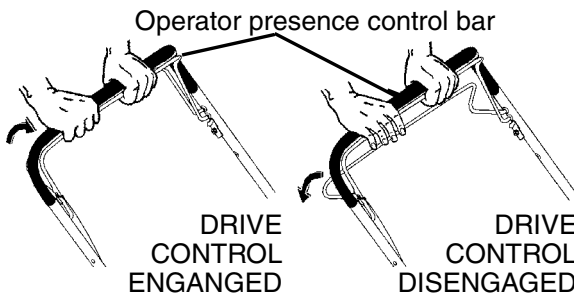
**CAUTION:** Federal regulations require an engine control to be installed on this lawn mower in order to minimize the risk of blade contact injury. Do not under any circumstances attempt to defeat the function of the operator control. The blade turns when the engine is running.

- 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 OPERATE DRIVE SYSTEM

- To start forward motion, lift drive control bar up to handle.
- To stop forward motion, release drive control bar.

**IMPORTANT:** Always keep drive control fully engaged against handle when in use.



## TO ADJUST CUTTING HEIGHT

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.

LEVER BACKWARD TO LOWER MOWER

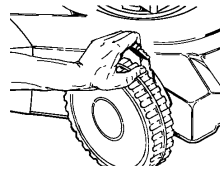
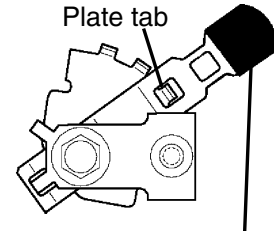


Plate tab

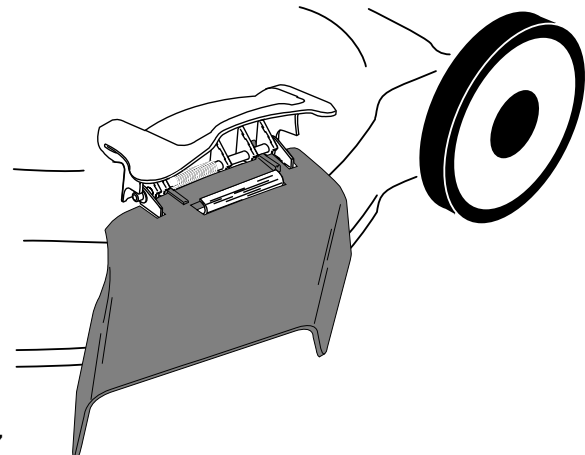
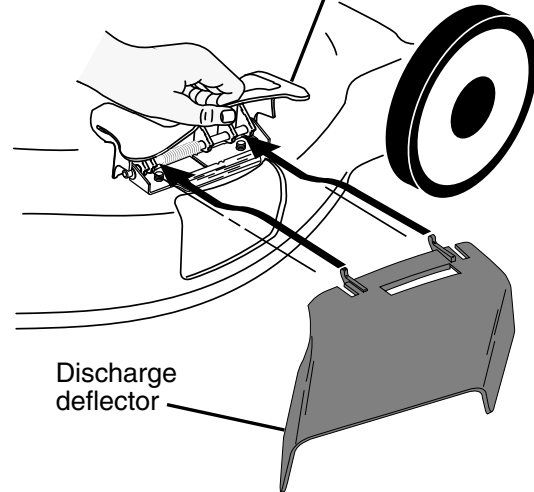
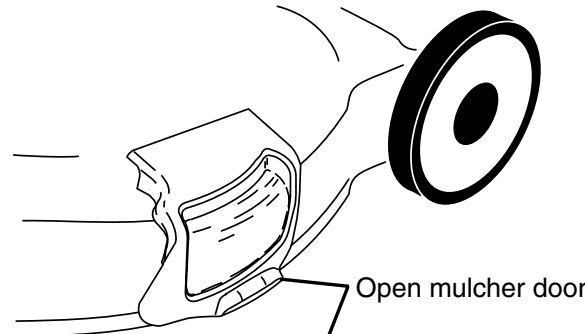


LEVER FORWARD TO RAISE MOWER Lever

## TO CONVERT MOWER

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

- Open mulcher door and install discharge deflector under door as shown.
- Mower is now ready for discharging operation.
- To convert to mulching operation, discharge deflector must be removed and mulcher door must be closed.



## BEFORE STARTING ENGINE

### ADD OIL

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 heavily from the muffler on startup.

1. Be sure lawnmower is level.
2. Remove oil dipstick from oil fill spout.
3. You receive a container of oil with the unit. Slowly pour the entire container down the oil fill spout into the engine.

**NOTE:** Initial oil fill requires only 18 oz. due to residual oil in engine from the manufacturer's 100% quality testing. When changing oil you may need 20 oz.

4. Insert and tighten dipstick.

### IMPORTANT:

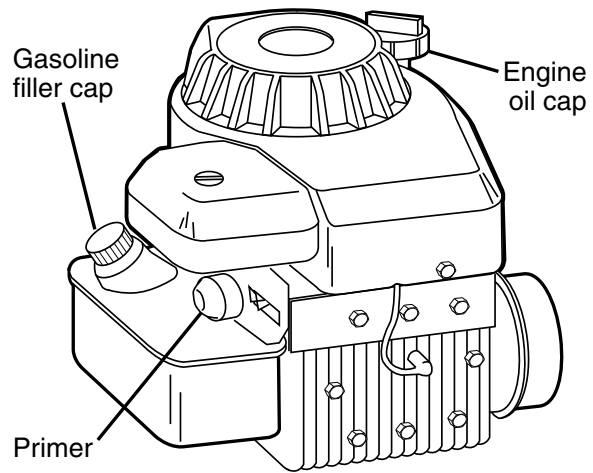
- Check oil level before each use. Add oil if needed. Fill to full line on dipstick.
- Change the oil after every 25 hours of operation or each season. You may need to change the oil more often under dusty, dirty conditions. See "TO CHANGE ENGINE OIL" in the Maintenance section of this manual.

### 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.

**⚠ CAUTION:** 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.

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

**NOTE:** In cooler weather it may be necessary to repeat priming steps. In warmer weather over priming may cause flooding and engine will not start. If you do flood engine, wait a few minutes before attempting to start and do not repeat priming steps.



## MOWING TIPS

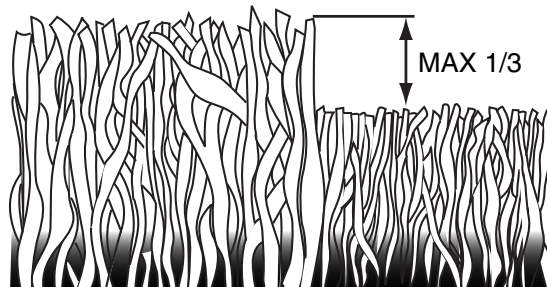
**⚠ CAUTION:** Do not use de-thatcher blade attachments on your mower. Such attachments are hazardous, will damage your mower and could void your warranty.

- 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. 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 grass, reduce your width of cut by overlapping previously cut path and mow slowly.



- 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 change to east to west the next week. This will help prevent matting and graining of the lawn.

# MAINTENANCE

MAINTENANCE SCHEDULE		BEFORE EACH USE	AFTER EACH USE	EVERY 10 HOURS	EVERY 25 HOURS OR SEASON	EVERY 100 HOURS	BEFORE STORAGE
LAWN MOWER	Check for Loose Fasteners	✓					✓
	Clean / Inspect Grass Catcher *	✓	✓				✓
	Check Tires	✓					
	Check Drive Wheels ***	✓					
	Clean Lawn Mower ****		✓				✓
	Clean under Drive Cover ***			✓			
	Check Drive Belt / Pulleys ***				✓		
	Check / Sharpen / Replace Blade				✓ <sub>3</sub>		
ENGINE	Lubrication				✓		
	Clean and Recharge Battery **				✓		✓ <sub>4</sub>
	Check Engine Oil level	✓ <sub>5</sub>					
	Change Engine Oil				✓ <sub>1,2</sub>		
	Clean Air Filter				✓ <sub>2</sub>		
	Inspect Muffler				✓		
	Replace Spark Plug					✓	
	Replace Air Filter Paper Cartridge					✓ <sub>2</sub>	
Empty fuel system or add Stabilizer						✓	

- \* (if so equipped)
- \*\* 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.

## 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 unit 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.

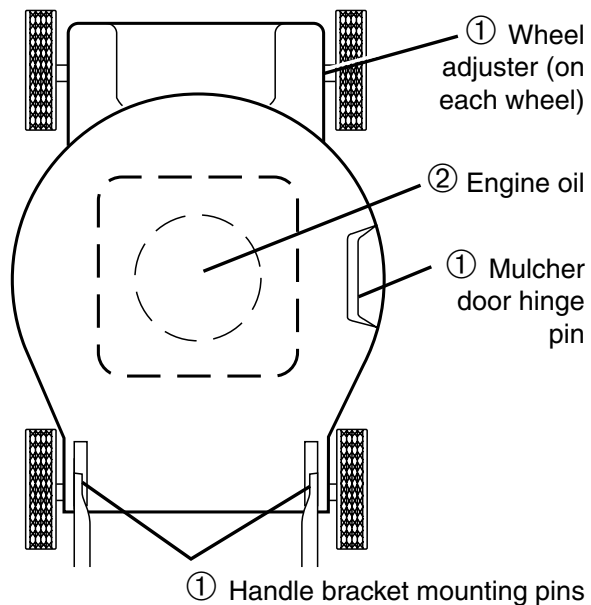
## BEFORE EACH USE

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

## LUBRICATION

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

## LUBRICATION CHART



- ① Spray lubricant
- ② See "ENGINE" in Maintenance section.

**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.

## LAWN MOWER

Always observe safety rules when performing any 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.

### DRIVE WHEELS

Check front drive wheels each time before you mow to be sure they move freely. The wheels not turning freely means trash, grass cuttings, etc. are in the drive wheel area and must be cleaned to free drive wheels. If necessary to clean the drive wheels, be sure to clean both front wheels.

1. Remove hubcaps, locknuts & washers.
2. Remove wheels from wheel adjusters.
3. Remove any trash or grass cuttings from inside the dust cover, pinion and/or drive wheel gear teeth.
4. Put wheels back in place.

**NOTE:** If after cleaning, the drive wheels do not turn freely, contact a Sears or other qualified service center.

### BLADE CARE

For best results, blade must be kept sharp. Replace a bent or damaged blade.

**▲ 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

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 & hardened washer).

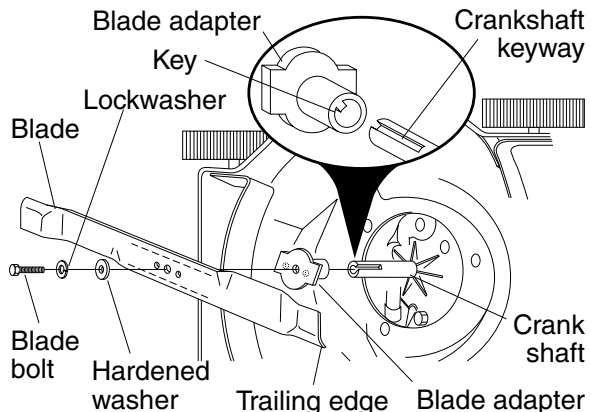
**NOTE:** Remove the blade adapter and check the key inside hub of blade adapter. The key must be in good condition to work properly. Replace adapter if damaged.

#### TO REPLACE BLADE

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 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 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

(if purchased as an accessory)

- The grass catcher may be hosed with water, but must be dry when used.
- Check your grass catcher often for damage or deterioration. Through normal use it will wear. If catcher needs replacing, replace only with approved replacement catcher shown in the Repair Parts section of this manual. Give the lawn mower model number when ordering.

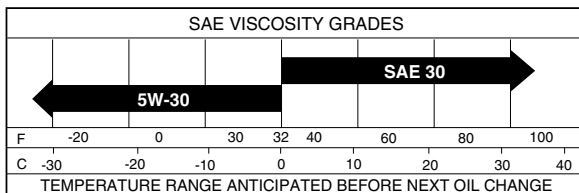
## GEAR CASE

- To keep your drive system working properly, the gear case and area around the drive should be kept clean and free of trash build-up. Clean under the drive cover twice a season.
- The gear case is filled with lubricant to the proper level at the factory. The only time the lubricant needs attention is if service has been performed on the gear case.
- If lubricant is required, use only Elf Multis EP00. Do not substitute.

## ENGINE

### LUBRICATION

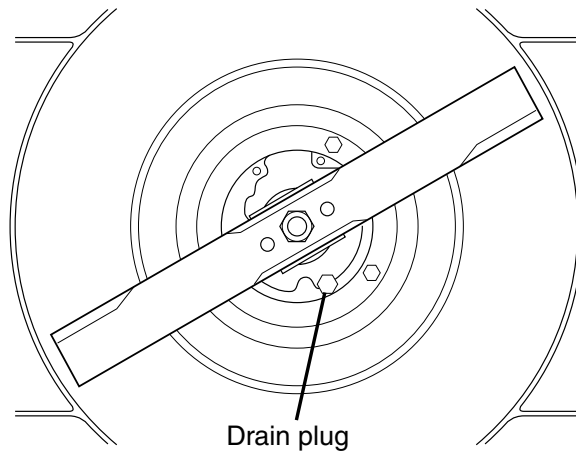
Use only high quality detergent oil rated with API service classification SG–SL. Select the oil's SAE viscosity grade according to your expected operating temperature.



**NOTE:** Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more 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

1. Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.
  2. Be sure lawn mower is on level surface.
- NOTE:** Oil will drain more freely when warm. Catch oil in a suitable container.
3. Remove bottom oil drain plug.
  4. After oil has drained completely, replace oil drain plug and tighten securely.
  5. Fill engine with oil. (See “ADD OIL” in the Operation section of this manual).
  6. Reconnect spark plug wire to spark plug.

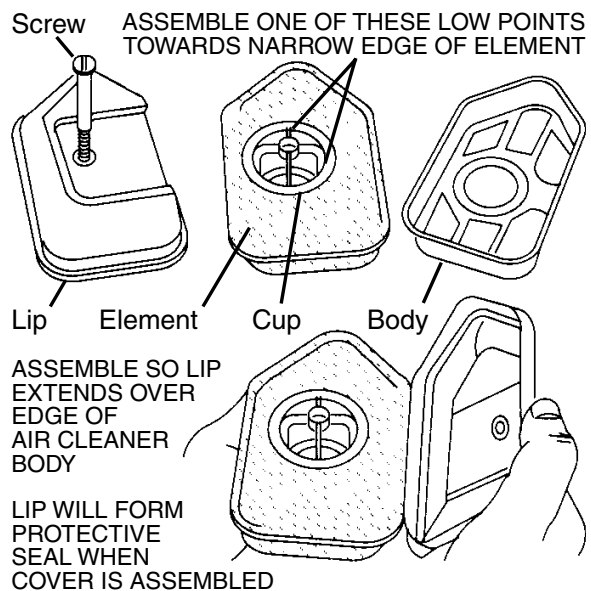


## AIR FILTER

Your engine will not run properly and may be damaged by using a dirty air filter. Clean the element after every 25 hours of operation or every season. 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 ELEMENT

1. Remove screw.
2. Remove air cleaner carefully to prevent dirt from entering carburetor.
3. Take air cleaner apart and clean air filter element.
4. Wash filter element in liquid detergent and water.
5. Wrap filter element in cloth and squeeze dry.
6. Lightly coat filter element with clean engine oil. Squeeze in towel to remove excess oil. Do not saturate.
7. Reassemble parts and put back on carburetor.



## 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.

## CLEAN UNDER DRIVE COVER

Clean under drive cover at least twice a season. Scrape underside of cover with putty knife or similar tool to remove any build-up of trash or grass on underside of drive cover.

# SERVICE AND ADJUSTMENTS

**WARNING:** To avoid serious injury, before performing any service and 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 wire 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 mowing position. If the deflector becomes damaged, it should be replaced.

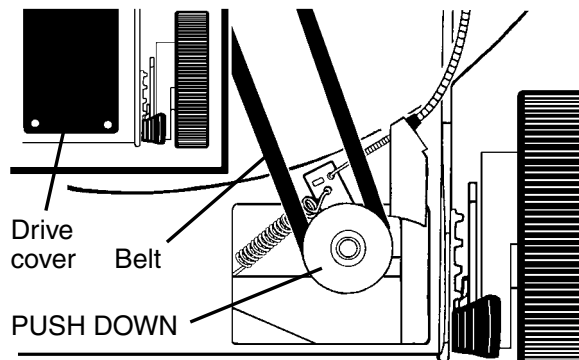
### TO REMOVE DRIVE BELT

1. Remove drive cover. Remove belt from gearcase pulley by pushing down on pulley and rolling belt off it.
2. Turn lawn mower on its side with air filter and carburetor up.
3. Remove blade.
4. Remove debris shield.
5. Remove belt from engine pulley on crankshaft.

### TO REPLACE DRIVE BELT

1. Install new belt on engine pulley.
2. Reinstall debris shield and blade.
3. Return mower to upright position.
4. Install new belt on gearcase pulley.
5. Reinstall drive cover.

**NOTE:** Always use factory approved belt to assure fit and long life.

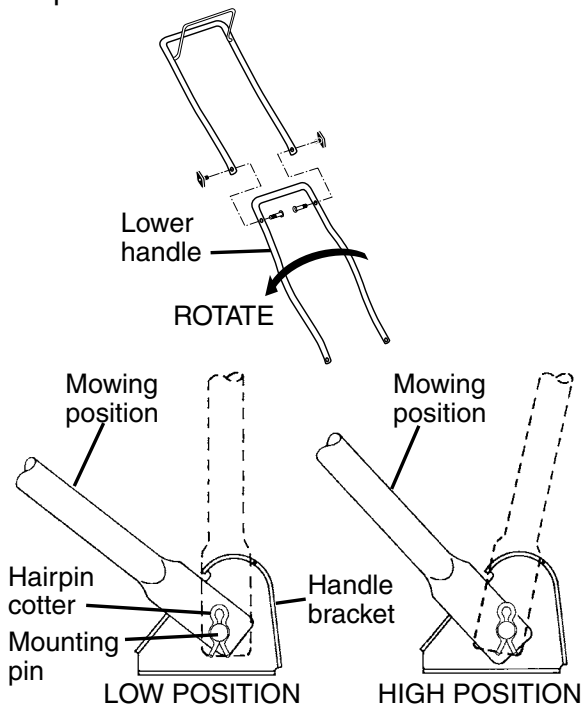


### TO ADJUST HANDLE

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 wire tie(s) securing cable(s) to lower handle.
2. Remove hairpin cotter 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.

- Squeeze lower handle in and position holes onto mounting pins on handle bracket.
- Reassemble upper handle and all parts removed from lower handle.



## 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 engine is running too fast or too slow, take your mower to a Sears or other qualified 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 Sears or other qualified 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 a Sears or other qualified service center, which has proper equipment and experience to 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.

- Clean entire lawn mower (See "CLEANING" in the Maintenance section of this manual).
- Lubricate as shown in the Maintenance section of this manual.
- Be sure that all nuts, bolts, screws, and pins are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

### HANDLE

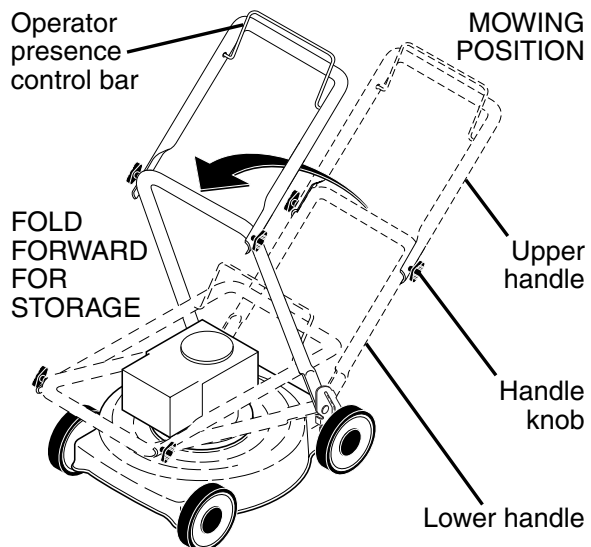
You can fold your mower handle for storage.

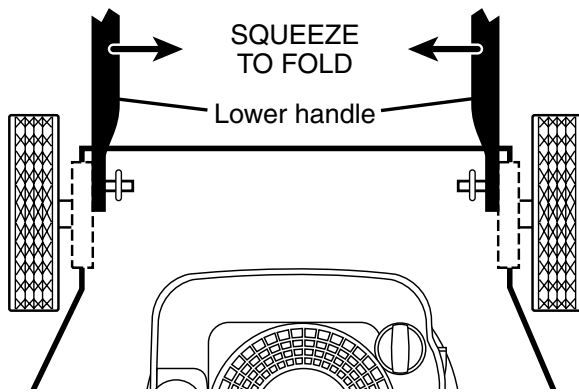
- Squeeze the bottom ends of the lower handle toward each other until the lower handle clears the handle bracket, then move handle forward.

- 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 the mowing position.





## ENGINE

### FUEL SYSTEM

**IMPORTANT:** It is important to prevent gum deposits from forming in essential fuel system parts such as carburetor, fuel filter, fuel hose, or tank during storage. Alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

- 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 protect it 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 - See appropriate section in manual unless directed to a Sears Service Centre.

PROBLEM	CAUSE	CORRECTION
<b>Does not start</b>	<ol style="list-style-type: none"> <li>1. Dirty air filter.</li> <li>2. Out of fuel.</li> <li>3. Stale fuel.</li> <li>4. Water in fuel.</li> <li>5. Spark plug wire is disconnected.</li> <li>6. Bad spark plug.</li> <li>7. Loose blade or broken blade adapter.</li> <li>8. Control bar in released position.</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean/replace air filter.</li> <li>2. Fill fuel tank.</li> <li>3. Empty fuel tank and refill tank with fresh, clean gasoline.</li> <li>4. Empty fuel tank and refill tank with fresh, clean gasoline.</li> <li>5. Connect wire to plug.</li> <li>6. Replace spark plug.</li> <li>7. Tighten blade bolt or replace blade adapter.</li> <li>8. Depress control bar to handle.</li> </ol>

**TROUBLESHOOTING - See appropriate section in manual unless directed to a Sears Service Centre.**

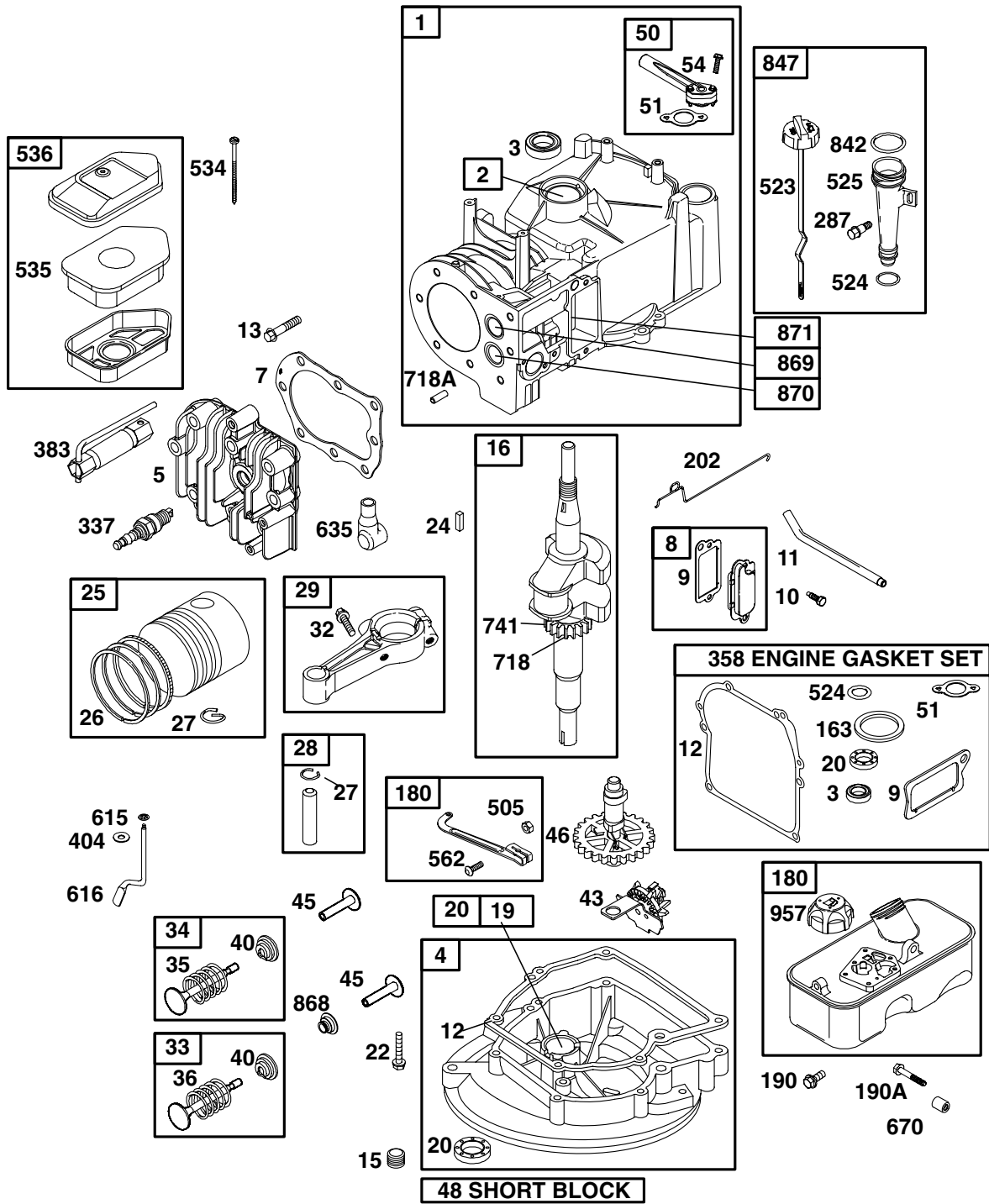
<b>PROBLEM</b>	<b>CAUSE</b>	<b>CORRECTION</b>
<b>Does not start (continued)</b>	<ol style="list-style-type: none"> <li>9. Control bar defective.</li> <li>10. Fuel valve lever (if so equipped) in OFF position.</li> <li>11. Weak battery (if equipped).</li> <li>12. Disconnected battery connector (if equipped).</li> </ol>	<ol style="list-style-type: none"> <li>9. Replace control bar.</li> <li>10. Turn fuel valve lever to the ON position.</li> <li>11. Charge battery.</li> <li>12. Connect battery to engine.</li> </ol>
<b>Loss of power</b>	<ol style="list-style-type: none"> <li>1. Rear of mower housing or blade dragging in grass.</li> <li>2. Cutting too much grass.</li> <li>3. Dirty air filter.</li> <li>4. Buildup of grass, leaves, and trash under mower.</li> <li>5. Too much oil in engine.</li> <li>6. Walking speed too fast.</li> </ol>	<ol style="list-style-type: none"> <li>1. Raise cutting height.</li> <li>2. Raise cutting height.</li> <li>3. Clean/replace air filter.</li> <li>4. Clean underside of mower housing.</li> <li>5. Check oil level.</li> <li>6. Cut at slower walking speed.</li> </ol>
<b>Poor cut – uneven</b>	<ol style="list-style-type: none"> <li>1. Worn, bent or loose blade.</li> <li>2. Wheel heights uneven.</li> <li>3. Buildup of grass, leaves and trash under mower.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace blade. Tighten blade bolt.</li> <li>2. Set all wheels at same height.</li> <li>3. Clean underside of mower housing.</li> </ol>
<b>Excessive vibration</b>	<ol style="list-style-type: none"> <li>1. Worn, bent or loose blade.</li> <li>2. Bent engine crankshaft.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace blade. Tighten blade bolt.</li> <li>2. Contact a Sears or other qualified service centre.</li> </ol>
<b>Starter rope hard to pull</b>	<ol style="list-style-type: none"> <li>1. Engine flywheel brake is on when control bar is released.</li> <li>2. Bent engine crankshaft.</li> <li>3. Blade adapter broken.</li> <li>4. Blade dragging in grass.</li> </ol>	<ol style="list-style-type: none"> <li>1. Depress control bar to upper handle before pulling the starter rope.</li> <li>2. Contact a Sears or other qualified service centre.</li> <li>3. Replace blade adapter.</li> <li>4. Move lawn mower to cut grass or to hard surface.</li> </ol>
<b>Grass catcher not filling (If so equipped)</b>	<ol style="list-style-type: none"> <li>1. Cutting height too low.</li> <li>2. Lift on blade worn off.</li> <li>3. Catcher not venting air.</li> </ol>	<ol style="list-style-type: none"> <li>1. Raise cutting height.</li> <li>2. Replace blade.</li> <li>3. Clean grass catcher.</li> </ol>
<b>Hard to push</b>	<ol style="list-style-type: none"> <li>1. Grass is too high or wheel height is too low.</li> <li>2. Rear of mower housing or blade dragging in grass.</li> <li>3. Grass catcher too full.</li> <li>4. Handle height position not right for you.</li> </ol>	<ol style="list-style-type: none"> <li>1. Raise cutting height.</li> <li>2. Raise rear of mower housing one (1) setting higher.</li> <li>3. Empty grass catcher.</li> <li>4. Adjust handle height to suit.</li> </ol>
<b>Loss of drive or slowing of drive speed</b>	<ol style="list-style-type: none"> <li>1. Belt wear.</li> <li>2. Belt off of pulley.</li> <li>3. Drive cable worn or broken.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check/replace drive belt.</li> <li>2. Check/reinstall drive belt.</li> <li>3. Replace drive cable.</li> </ol>

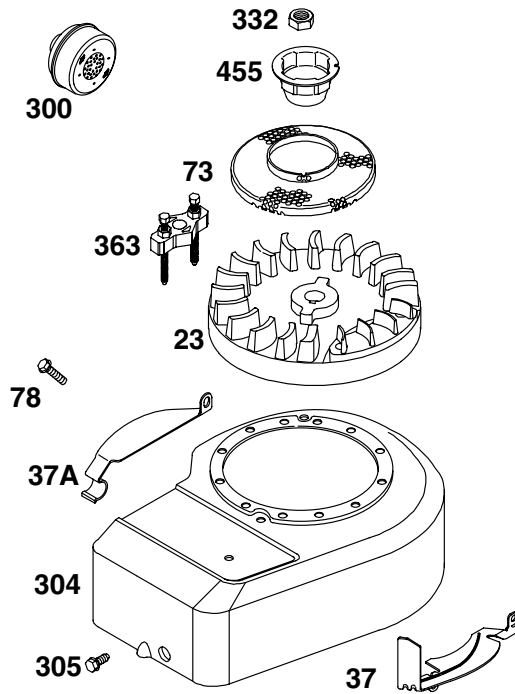
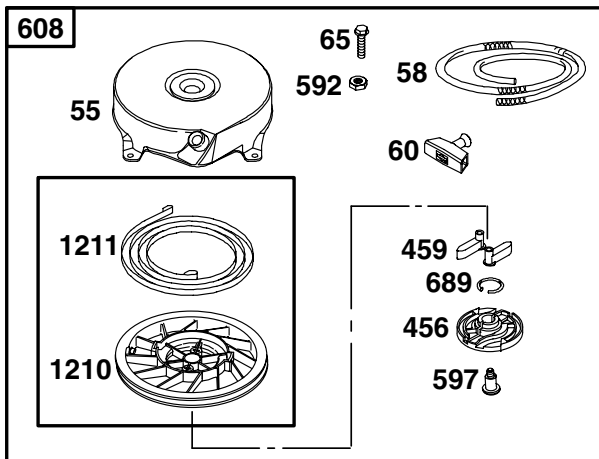
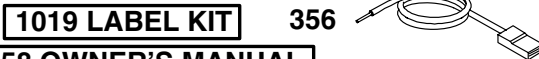
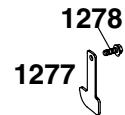
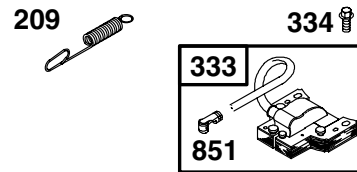
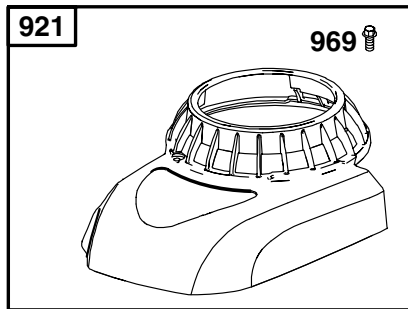
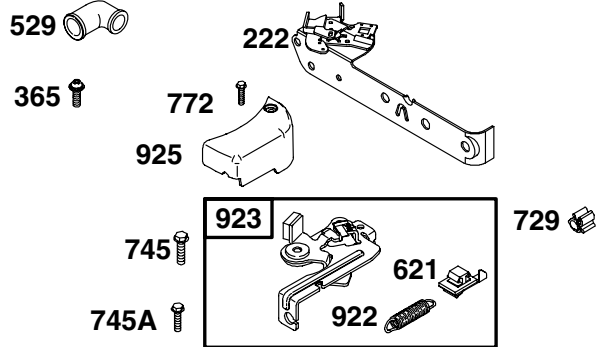
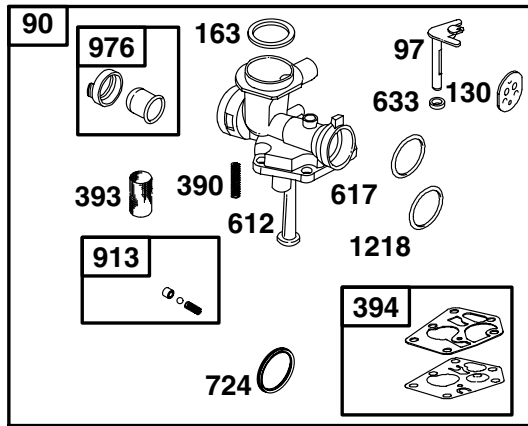


# REPAIR PARTS

BRIGGS & STRATTON 4-CYCLE ENGINE

MODEL NUMBER 10L02-0480-E1



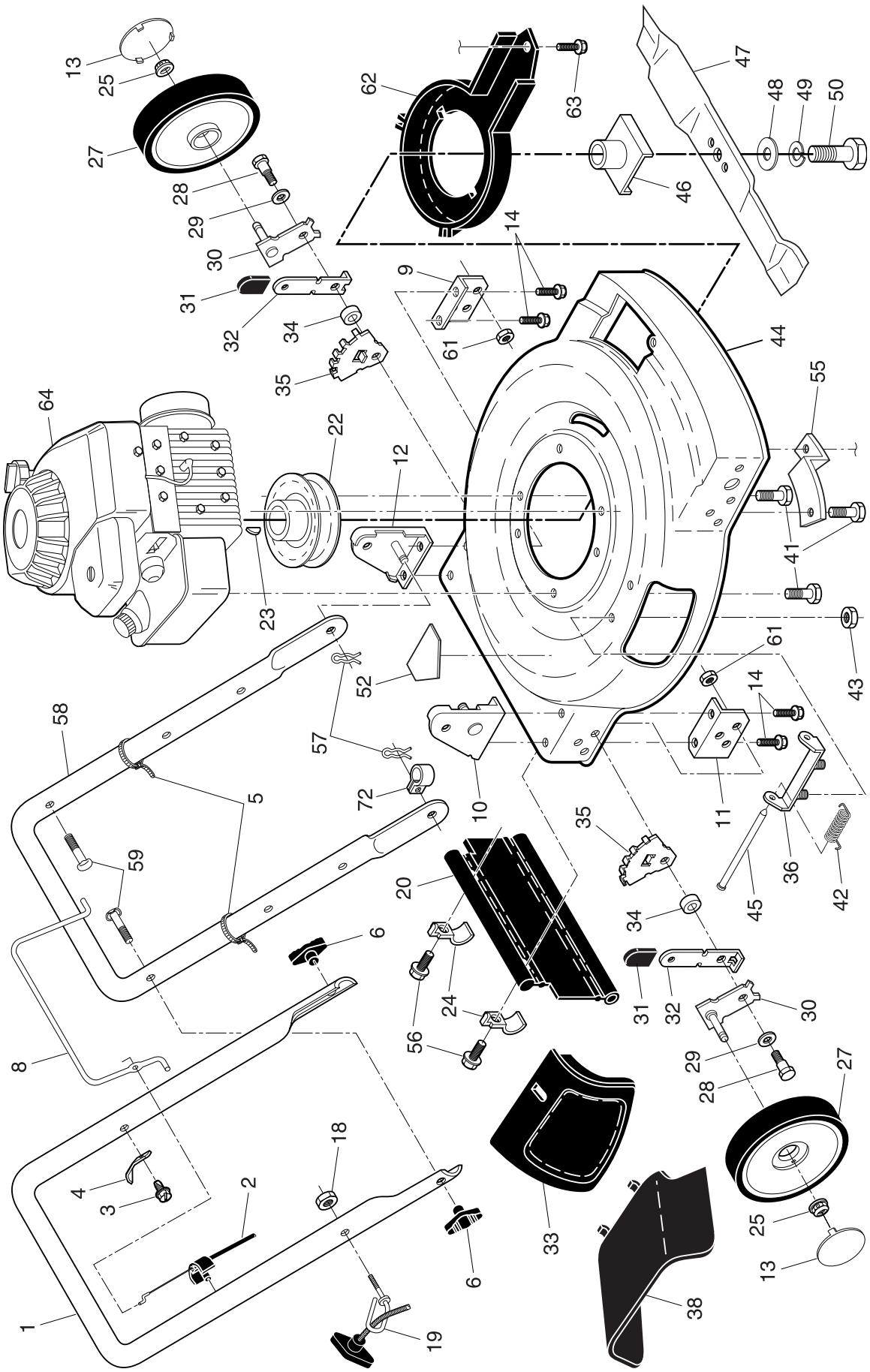


KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	699650	Cylinder Assembly	365	790029	Screw (Carburetor)
2	399269	Bushing/Seal Kit (PTO Side)	383	89838	Wrench-Spark Plug
3	299819	• Seal-Oil (PTO Side)	390	691839	Spring-Choke Diaphragm
4	698691	Sump-Engine	393	691837	Screen-Carburetor
5	690386	Head-Cylinder	394	495770	Diaphragm-Carburetor
7	698717	• Gasket-Cylinder Head	404	690272	Washer (Governor Crank)
8	699640	Breather Assembly (Includes Gasket)	455	691236	Cup-Flywheel
9	695890	Gasket-Breather	456	692299	Retainer-Spring
10	691666	Screw (Breather Assembly)	459	281505	Pawl-Ratchet
11	691245	Tube-Breather	505	691251	Nut (Governor Control Lever)
12	692218	• Gasket-Crankcase	523	692040	Dipstick
13	691697	Screw (Cylinder Head)	524	691876	• Seal-Dipstick Tube
15	691680	Plug-Oil Drain	525	691320	Tube-Dipstick
16	691472	Crankshaft	529	692189	Grommet
19	293709	Bushing/Seal Kit (Magneto Side)	534	691417	Screw (Air Cleaner)
20	391483	• Seal-Oil (Magneto Side)	535	698369	Filter-Air
22	691662	Screw (Engine Sump)	536	698472	Cleaner-Air
23	692009	Flywheel	562	691119	Screw (Governor Control Lever)
24	222698	Key-Flywheel	592	690800	Nut (Rewind Starter)
25	699657	Piston Assembly (Standard)	597	691696	Screw (Ratchet Pawl)
26	699658	Ring Set (Standard)	608	499706	Starter-Rewind
27	691588	Lock-Piston Pin	612	496046	Tube-Pickup
28	699659	Pin-Piston (Standard)	615	690340	Retainer-Governor Shaft
29	699654	Rod-Connecting	617	270344	Seal-O Ring (Intake Manifold)
32	691664	Screw (Connecting Rod)	621	692310	Switch-Stop
33	296676	Valve-Exhaust	633	691321	Seal-Choke/Throttle Shaft
34	296677	Valve-Intake	635	66538	Boot-Spark Plug
35	690520	Spring-Valve (Intake)	670	691633	Spacer-Fuel Tank
36	690520	Spring-Valve (Exhaust)	689	691855	Spring-Friction
37	697403	Guard-Flywheel	718	499047	Pin-Locating
37A	690482	Guard-Flywheel	718A	690959	Pin-Locating
40	692194	Retainer-Valve	724	697478	Link-Starter Switch
43	697799	Slinger-Governor/Oil	729	690586	Clip-Wire
45	691762	Tappet-Valve	741	691805	Gear-Timing
46	691998	Gear-Cam	745	691146	Screw (Brake)
48	- - -	Short Block (N/A)	745A	690859	Screw (Brake)
50	699644	Manifold-Intake	772	691111	Screw (Linkage Cover)
51	699649	• Gasket-Intake	842	691870	Seal-O Ring (Dipstick)
54	691111	Screw (Intake Manifold)	847	691440	Dipstick/Tube Assembly
55	692144	Housing-Rewind Starter	851	493880	Terminal-Spark Plug
58	697316	Rope-Starter	868	697338	Seal-Valve
60	691915	Grip-Starter Rope	869	699641	Seat-Valve (Intake)
65	690837	Screw (Rewind Starter)	870	699642	Seat-Valve (Exhaust)
73	699850	Screen-Rotating	871	699643	Bushing-Guide (Exhaust)
78	692198	Screw (Flywheel Guard)	913	494409	Seat-Check Valve
90	790206	Carburetor	921	699796	Cover-Blower Housing
97	691931	Shaft-Throttle	922	692135	Spring-Brake
130	691190	Valve-Throttle	923	691487	Brake
163	271139	• Gasket-Air Cleaner	925	691349	Cover-Linkage
180	494406	Tank-Fuel	957	497929	Cap-Fuel Tank (Plastic)
190	692198	Screw (Fuel Tank)	969	692523	Screw (Blower Housing Cover)
190A	691697	Screw (Fuel Tank)	976	694394	Primer-Carburetor
202	698835	Link-Mechanical Governor	1019	699934	Label Kit
209	698726	Spring-Governor	1036	790713	Label-Emissions
222	698725	Bracket-Control	1058	275508	Owner's Manual
227	697402	Lever-Governor Control	1210	499901	Pulley/Spring Assembly (Pulley)
287	691002	Screw (Dipstick Tube)	1211	499901	Pulley/Spring Assembly (Spring)
300	394569	Muffler	1218	695866	Seal-O Ring (Carburetor)
304	697411	Blower Housing	1277	698718	Guard-Governor
305	692198	Screw (Blower Housing)	1278	691002	Screw (Governor Guard)
332	690662	Nut (Flywheel)	1329	10M902-0015	Replacement Engine
333	496914	Armature-Magneto	1330	270962	Repair Manual
334	691061	Screw (Magneto Armature)	- -	398067	Spark Arrester (available accy.)
337	802592	Plug-Spark			
356	692390	Wire-Stop			
358	699933	Gasket Set-Engine			
363	19069	Flywheel Puller			

• Included in Engine Gasket Set, Key Number 358.

**NOTE:** All component dimensions given in U.S. inches  
1 inch = 25.4 mm

**CRAFTSMAN ROTARY LAWN MOWER -- MODEL NUMBER 944.365790**



## CRAFTSMAN ROTARY LAWN MOWER -- MODEL NUMBER 944.365790

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	1942000X479	Upper Handle	34	146630	Spacer
2	175148	Engine Zone Control Cable	35	750085X007	Bracket, Wheel Adjuster
3	750634	Screw	36	154132	Bracket, Housing
4	850733X004	Upstop Bracket	38	176509	Deflector, Discharge
5	66426	Wire Tie	41	150406	Screw, Hex Head, Threaded, Rolled 3/8-16 x 1-1/8
6	189713X428	Handle Knob	42	152124	Spring, Torsion
8	194185X428	Control Bar	43	73800400	Locknut, Hex
9	153282X479	Support Bracket, Handle, LH	44	196961	Kit, Lawn Mower Housing (Includes Key Number 46)
10	170345X479	Handle Bracket Assembly, RH	45	147286	Rod, Hinge
11	153350X479	Support Bracket, Handle, RH	46	851514	Adapter, Blade
12	170346X479	Handle Bracket Assembly, LH	47	192682	Blade, 22"
13	77400	Hubcap	48	851074	Washer, Hardened
14	149741	Screw, Thread Cutting 5/16-18 x 3/4	49	850263	Washer, Lock, Helical
18	132004	Locknut, Keps	50	851084	Screw, Hex Head 3/8-24 x 1-3/8 Grade 8
19	179585	Rope Guide	52	107339X	Decal, Danger
20	189008	Rear Deflector	55	188839X004	Mounting Bracket, Debris Shield
22	85496	Pulley, Engine	56	750097	Screw, Hex Washer Head #10-24 x 1/2
23	87677	Hi-Pro Key	57	51793	Hairpin Cotter
24	87584X004	Bracket, Deflector	58	151590X479	Lower Handle
25	83923	Locknut, Hex 3/18-16	59	191574	Handle Bolt
27	194230X427	Wheel & Tire Assembly	61	751592	Locknut, Hex
28	142748	Shoulder Bolt	62	188784	Debris Shield
29	62335	Belleville Washer	64	- - -	Engine, Briggs & Stratton, Model Number 10L902-0480-E1 (See Breakdown)
30	145935X004	Axle Arm Assembly	72	192770	Clip, Cable
31	87877	Knob, Selector	- -	162300	Warning Decal (not shown)
32	700331X004	Spring, Selector	- -	196959	Owner's Manual, English
33	151889	Mulcher Door	- -	196960	Owner's Manual, French

**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.



## CRAFTSMAN ROTARY LAWN MOWER - - MODEL NUMBER 944.365790

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	194653	Control Cable Assembly	41	195107	Kit, Wheel Adjuster, RH (Includes Knob and Bearing)
2	191039	Bearing, Wheel Adjuster	55	86012	Driveshaft Cover
3	143603	Pan Head Tapping Screw #10-24 x 2-3/4	60	183497	Case, Lower *
5	146527	V-Belt	61	183498	Case, Upper *
6	150495	Spring Retainer	62	183499	Gear, 27 Teeth
7	194199X428	Control Bar, Drive	63	183500	Lever, Clutch
8	77400	Hubcap	64	183501	Spring, Return
9	145212	Locknut	65	183502	Shaft, Input
11	194231X427	Wheel & Tire Assembly	66	183503	Dog, Movable
12	12000058	E-Ring	67	183504	Dog, Fixed
13	750003	Pinion	68	183505	Wire, Formed
14	189403	Dust Cover	69	183506	Bearing, Ball
15	191017	Pawl, Drive	70	183507	Fork, Shift
16	67725	Washer 1/2	71	183508	Seal, Output Shaft
18	87877	Selector Knob	72	183509	Washer
28	194398X428	Drive Cover	73	183510	Seal, Case
32	194126	Drive Pulley	74	183511	Bushing
35	195110	Kit, Wheel Adjuster, LH (Includes Knob and Bearing)	75	196561	Shaft, Output
36	194936	Gear Case Assembly, Complete	76	183513	Screw
38	73800400	Locknut 1/4-20	77	183514	Seal, Input Shaft
40	137090	Spring			

\* Use Dow Corning #709 to reseal Gearcase Halves

**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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