

Owner's Manual



**6.0 HORSEPOWER  
22" REAR DISCHARGE  
POWER PROPELLED  
ROTARY LAWN MOWER**

Model No.  
917.377151

- Safety
- Assembly
- Operation
- Maintenance
- Español
- Repair Parts



**CAUTION:**

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

Sears, Roebuck and Co., Hoffman Estates, IL 60179  
Visit our Craftsman website: [www.sears.com/craftsman](http://www.sears.com/craftsman)

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## WARRANTY

### LIMITED TWO YEAR WARRANTY ON CRAFTSMAN POWER MOWER

For two years from date of purchase, when this Craftsman Lawn Mower is maintained, lubricated, and tuned up according to the operating and maintenance instructions in the owner's manual, Sears will repair free of charge any defect in material or workmanship.

If this Craftsman Lawn Mower is used for commercial or rental purposes, this warranty applies for only 90 days from the date of purchase.

This Warranty does not cover:

- 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 Center/Department in the United States. This warranty applies only while this product is in use in the United States.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

SEARS, ROEBUCK AND CO., D/817 WA, HOFFMAN ESTATES, ILLINOIS 60179

## 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.

### I. GENERAL OPERATION

- Read, understand, and follow all instructions on the machine and in the manual(s) before starting. Be thoroughly familiar with the controls and the proper use of the machine before starting.
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- Only allow responsible individuals, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, bones, sticks, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Do not operate the mower when barefoot or wearing open sandals. Always wear substantial foot wear.
- Do not pull mower backwards unless absolutely necessary. Always look down and behind before and while moving backwards.
- Do not operate the mower without proper guards, plates, grass catcher or other safety protective devices in place.
- See manufacturer's instructions for proper operation and installation of accessories. Only use accessories approved by the manufacturer.
- Stop the blade(s) when crossing gravel drives, walks, or roads.
- Stop the engine (motor) whenever you leave the equipment, before cleaning the mower or unclogging the chute.
- Shut the engine (motor) off and wait until the blade comes to complete stop before removing grass catcher.

- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Never operate machine in wet grass. Always be sure of your footing: keep a firm hold on the handle and walk; never run.
- Disengage the self-propelled mechanism or drive clutch 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. SERVICE

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
  - Use only an approved container.
  - Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.
  - Never refuel the machine indoors.
  - Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Never run a 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 (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 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.

**⚠** 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 contact spark plug.

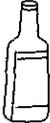
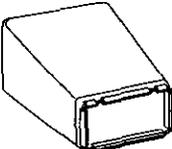
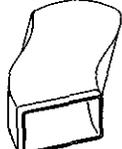
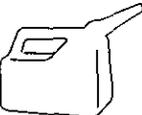
**⚠ WARNING:** Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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

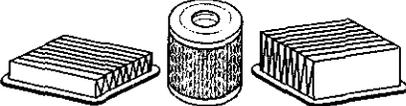
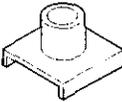
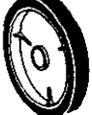
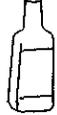
## ACCESSORIES

These accessories were available when this lawn mower was produced. **They are not shipped with your mower.** They are also available at most Sears retail outlets and service centers. Most Sears stores can also order repair parts for you, when you provide the model number of your lawn mower. Some of these accessories may not apply to your lawn mower.

### LAWN MOWER PERFORMANCE

 <b>CLIPPING DEFLECTOR</b> FOR REAR DISCHARGE LAWN MOWERS	 <b>MULCHER KITS</b>	 <b>STABILIZER</b>
 <b>GRASS CATCHERS</b> FOR REAR DISCHARGE LAWN MOWERS	 <b>GRASS CATCHERS</b> FOR SIDE DISCHARGE LAWN MOWERS	 <b>GAS CANS</b>

### LAWN MOWER MAINTENANCE

 <b>MUFFLERS</b>		 <b>AIR FILTERS</b>		 <b>SPARK PLUGS</b>
 <b>BELTS</b>	 <b>BLADES</b>	 <b>BLADE ADAPTERS</b>	 <b>WHEELS</b>	 <b>ENGINE OIL</b>

# ASSEMBLY

Read these instructions and this manual in its entirety before you attempt to assemble or operate your new lawn mower.

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

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

## TO REMOVE LAWN MOWER FROM CARTON

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

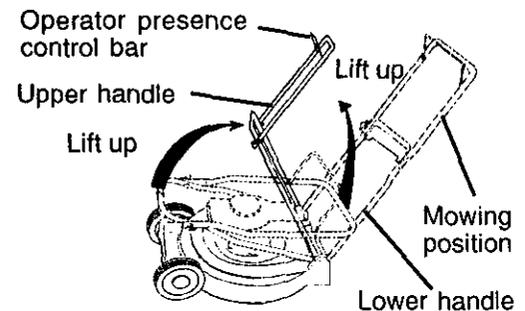
## HOW TO SET UP YOUR LAWN MOWER

### 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.

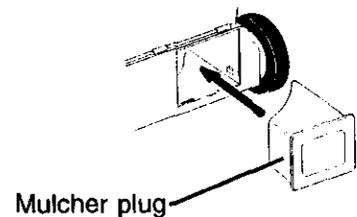


### TO INSTALL ATTACHMENTS

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

- Open rear door and remove mulcher plug. Store mulcher plug in a safe place.
- You can now install catcher or optional clipping deflector.
- To return to mulching operation, install mulcher plug into discharge opening of mower.

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

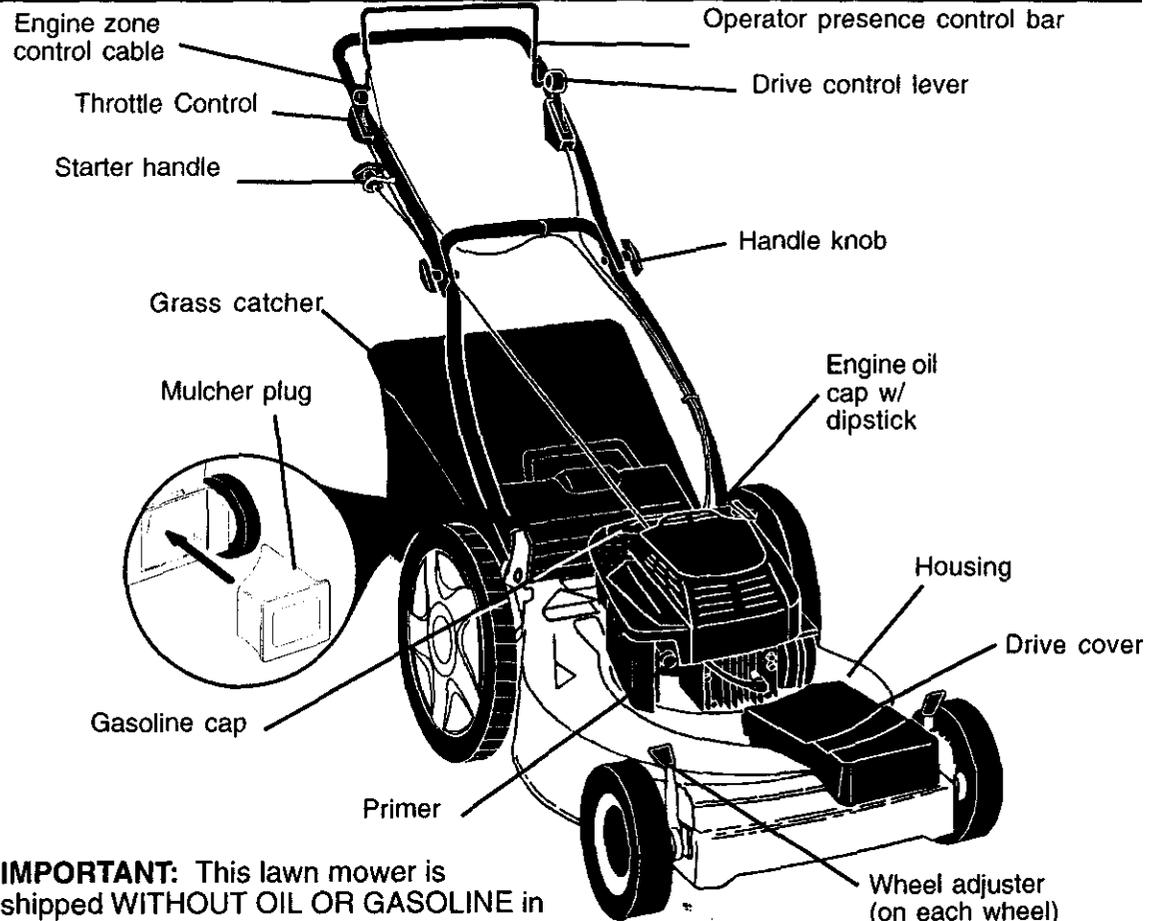
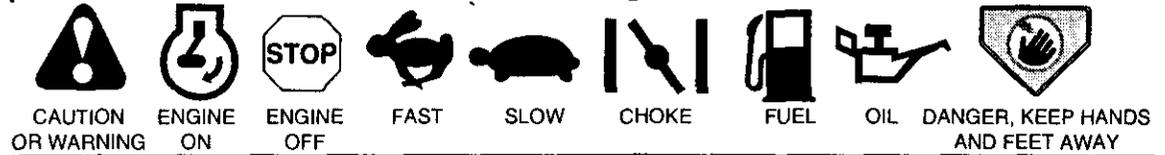


# OPERATION

## KNOW YOUR LAWN MOWER

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR LAWN MOWER. Compare the illustrations with your lawn mower to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.

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



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

### MEETS CPSC SAFETY REQUIREMENTS

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.

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

**Starter handle** - used for starting the engine.

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

**Mulcher plug** - must be removed to convert to bagging or discharging operation.

**Throttle Control** - used for starting the engine and allows you to select either fast or slow engine speed.

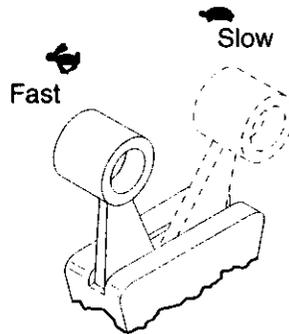


The operation of any lawn mower can result in foreign objects thrown into the eyes, which can result in severe eye damage.

Always wear safety glasses or eye shields while operating your lawn mower or performing any adjustments or repairs. We recommend a wide vision safety mask over spectacles or standard safety glasses.

### HOW TO USE YOUR LAWN MOWER ENGINE SPEED

The engine speed is controlled by a throttle located on the side of the upper handle. Fast position is for starting, normal cutting, trimming and better grass bagging. Slow position is for light cutting, trimming and fuel economy.



### ENGINE ZONE CONTROL

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

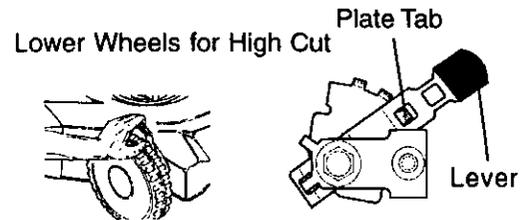
- Your lawn mower is equipped with an operator presence control bar which requires the operator to be positioned behind the lawn mower handle to start and operate the lawn mower.

### TO ADJUST CUTTING HEIGHT

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.

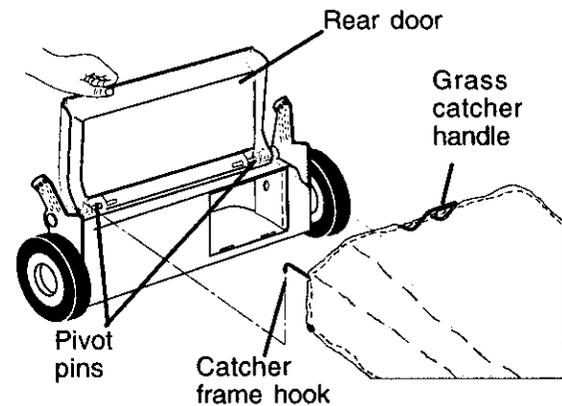
**NOTE:** Adjuster is properly positioned when plate tab inserts into hole in lever. Also, 9-position adjusters (if so equipped) allow lever to be positioned between the plate tabs.



### Raise Wheels for Low Cut TO ATTACH GRASS CATCHER

- Lift the rear door of the lawn mower and place the grass catcher frame side hooks onto the door pivot pins.
- The grass catcher is secured to the lawn mower housing when the rear door is lowered onto the grass catcher frame.

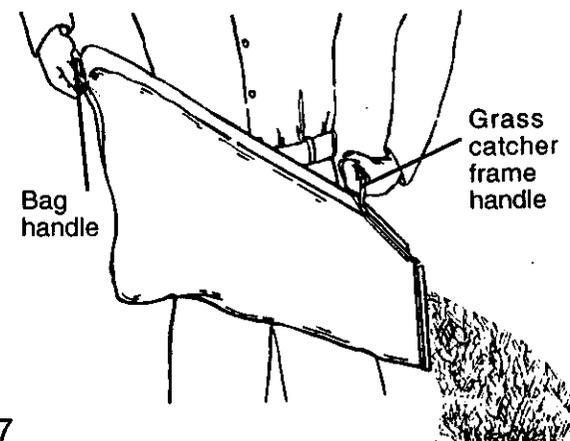
**CAUTION:** Do not run your lawn mower without clipping deflector or approved grass catcher in place. Never attempt to operate the lawn mower with the rear door removed or propped open.



### TO EMPTY GRASS CATCHER

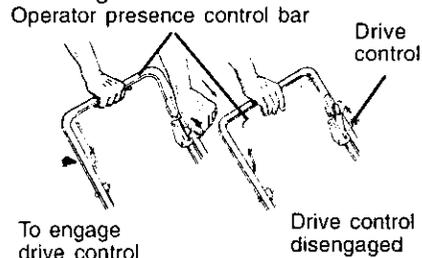
- Lift up on grass catcher using the frame handle.
- Remove grass catcher with clippings from under lawn mower handle.
- Empty clippings from bag using both frame handle and bag handle.

**NOTE:** Do not drag the bag when emptying; it will cause unnecessary wear.



## DRIVE CONTROL

- Self-propelling is controlled by holding the operator presence control bar down to the handle and pushing the drive control lever forward until it clicks; then releasing the lever.
- Forward motion will stop when the operator presence control bar is released. To stop forward motion without stopping engine, release the operator presence control bar slightly until the drive control disengages. Hold operator presence control bar down against handle to continue mowing without self-propelling.
- To keep drive control engaged when turning corners, push down on handle and lift front wheels off ground while turning lawn mower.



## BEFORE STARTING ENGINE

### ADD OIL

Your lawnmower is shipped without oil in the engine. Engine holds 20 oz. of oil. For type and grade of oil to use, see "ENGINE" in Maintenance section of this manual.

1. Be sure lawnmower is level and area around oil fill is clean.
2. Remove engine oil cap and fill to the full line on the dipstick. Pour oil slowly. Do not over fill.

**NOTE:** Allow oil to settle down into engine for accurate dipstick reading. To read proper level, tighten engine oil cap, then remove it to read the dipstick.

3. Reinstall engine oil cap and tighten.
- 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.

## ADD GASOLINE

**NOTE:** Before filling fuel tank, remove and discard the debris plug that is inside the tank.

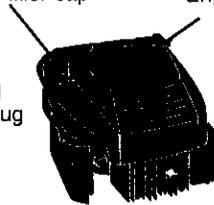
- Fill fuel tank. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octane. Do not mix oil with gasoline. Purchase fuel in quantities that can be used within 30 days to assure fuel freshness.

**WARNING:** Experience indicates that 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. Drain 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.

**CAUTION:** Fill to bottom of gas tank filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

Gasoline filler cap      Engine oil cap

(Discard debris plug inside)



## 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. Move throttle control lever to fast position.
3. Hold operator presence control bar down to the handle and pull starter handle quickly. Do not allow starter rope to snap back.

## TO STOP ENGINE

- To stop engine, release operator presence control bar.

**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.

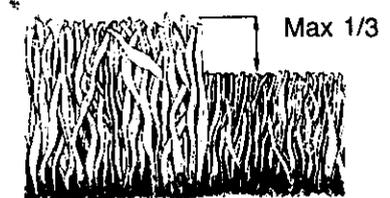
## MOWING TIPS

- 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.
- When using a rear discharge lawn mower in moist, heavy grass, clumps of cut grass may not enter the grass catcher. Reduce ground speed (pushing speed) and/or run the lawn mower over the area a second time.
- If a trail of clippings is left on the right side of a rear discharge mower, mow in a clockwise direction with a small overlap to collect the clippings on the next pass.
- Pores in cloth grass catchers can become filled with dirt and dust with use and catchers will collect less grass. To prevent this, regularly hose catcher off with water and let dry before using.
- Keep top of engine around starter clear and clean of grass clippings and chaff. This will help engine air flow and extend engine life.

## MULCHING MOWING TIPS

**IMPORTANT:** For best performance, keep mower housing free of built-up grass and trash. See "Cleaning" in Maintenance section of this manual.

- The special mulching blade will recut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed as this will provide the best recutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried and the newly cut area will not be exposed to the direct sun.
- 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 mulching, 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 or 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.





## PRODUCT SPECIFICATIONS

SERIAL NUMBER	
DATE OF PURCHASE	
GASOLINE CAPACITY/TYPE:	1.6 QUARTS UNLEADED REGULAR
OIL TYPE (API-SF-SJ):	SAE 30 (ABOVE 32°F) SAE 5W-30 (BELOW 32°F)
OIL CAPACITY:	20 OZS.
SPARK PLUG (GAP: .030")	CHAMPION RJ19LM OR J19LM
VALVE CLEARANCE:	INTAKE: .004 - .008 EXHAUST: .004 - .008
SOLID STATE IGNITION AIR GAP:	.0125 IN.
BLADE BOLT TORQUE:	35-40 FT. LBS.
<ul style="list-style-type: none"> <li>The model and serial numbers will be found on a decal attached to the rear of the lawn mower housing. Record both serial number and date of purchase in space provided above.</li> </ul>	

### 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.

### BLADE CARE

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

#### TO REMOVE BLADE

1. Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with spark plug.
2. Turn lawn mower on its side. Make sure air filter and carburetor are up.
3. Use a wood block between blade and mower housing to prevent blade from turning when removing blade bolt.

**NOTE:** Protect your hands with gloves and/or wrap blade with heavy cloth.

4. Remove blade bolt by turning counter-clockwise.
5. Remove blade and attaching hardware (bolt, lock washer and hardened washer).

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

#### TO REPLACE BLADE

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 grade 8 heat treated.

#### 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.

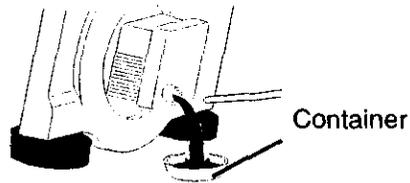
- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.
- To check blade balance, drive a nail into a beam or wall. Leave about one inch of the straight nail exposed. Place center hole of blade over the head of



## TO CHANGE ENGINE OIL

**NOTE:** Before tipping lawn mower to drain oil, drain 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 spark 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 on lawn mower and on side of engine.
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

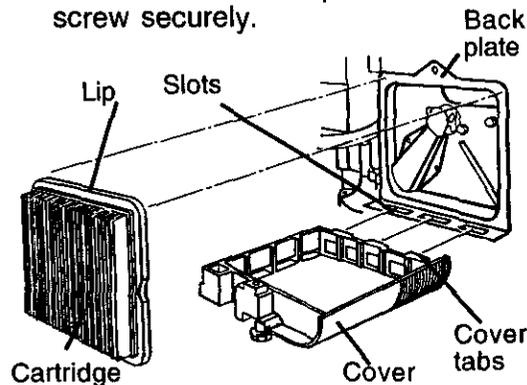
Your engine will not run properly and may be damaged by using a dirty air filter. Replace the air filter every year, more often if you mow in very dusty, dirty conditions.

### TO CLEAN AIR FILTER

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

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

4. Install cartridge, then replace cover making sure the tabs are aligned with the slots in the back plate. Fasten screw securely.



## MUFFLER

Inspect and replace corroded muffler as it could create a fire hazard and/or damage.

## SPARK PLUG

Change your spark plug each year to make your engine start easier and run better. Set spark plug gap at .030 inch.

## 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 the spark 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

**CAUTION:** Before performing any service or adjustments:

1. Release control bar and stop engine.
2. Make sure the blade and all moving parts have completely stopped.
3. Disconnect spark plug wire from spark plug and place where it cannot come in contact with plug.

### LAWN MOWER

#### TO ADJUST CUTTING HEIGHT

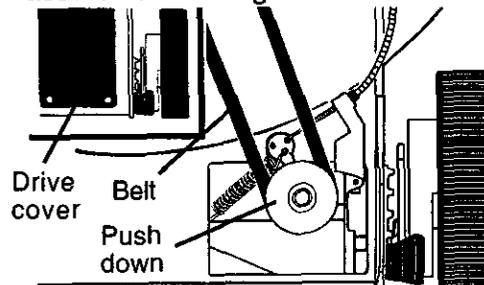
See "TO ADJUST CUTTING HEIGHT" in the Operation section of this manual.

#### REAR DEFLECTOR

The rear deflector, attached between the rear wheels of your mower, is provided to minimize the possibility that objects will be thrown out of the rear of the mower into the operator mowing position. If the deflector becomes damaged, it should be replaced.

#### TO REMOVE/REPLACE DRIVE BELT

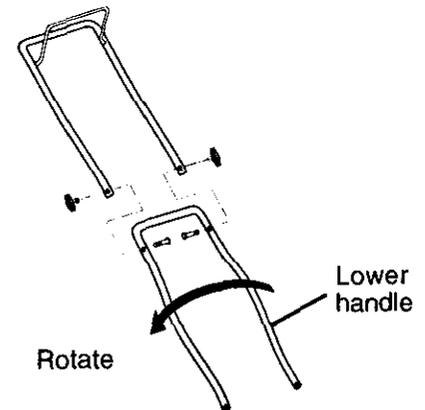
1. Remove drive cover. Remove belt from gearcase pulley by pushing down on pulley and rolling belt off it.
2. Turn lawn mower on its side with air filter and carburetor up.
3. Remove blade.
4. Remove debris shield.
5. Remove belt from engine pulley on crankshaft.
6. Install new belt by reversing above steps.
7. 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 all parts attached to lower handle.
2. Remove hairpin cotters from lower handle bracket mounting pin.
3. Squeeze lower handle in to remove it from mounting pins.
4. Turn lower handle over to raise or lower handle.
5. Squeeze lower handle in and position holes onto mounting pins on handle bracket.
6. Reassemble upper handle and all parts removed from lower handle.

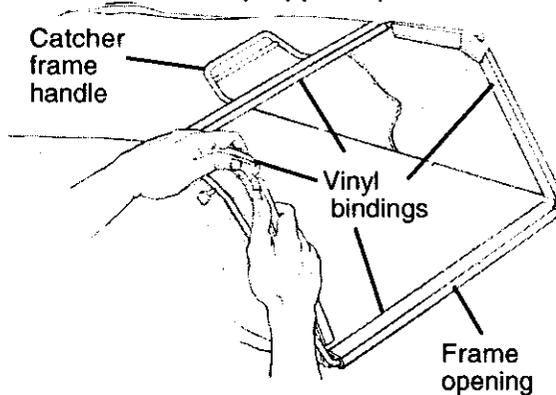


## TO ASSEMBLE GRASS CATCHER

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.

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



## 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 an authorized service center for repair and adjustment.

### CARBURETOR

Your carburetor has a non-adjustable fixed main jet for mixture control. If your engine does not operate properly due to suspected carburetor problems, take your lawn mower to an authorized service center for repair and/or adjustment.

**IMPORTANT:** 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 authorized 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.

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.

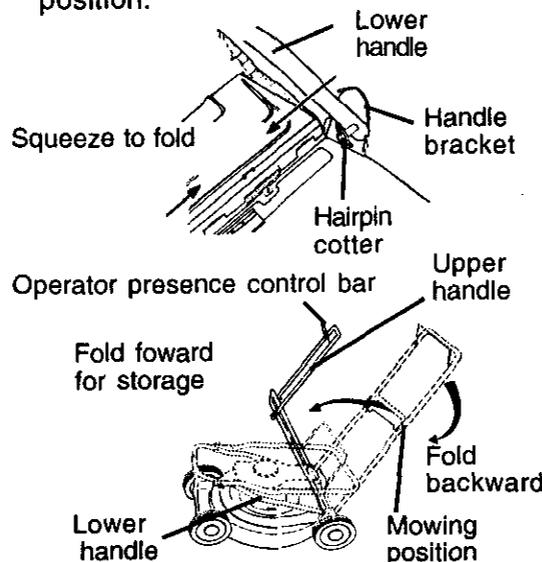
### HANDLE

You can fold your lawn mower handle for storage.

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

**IMPORTANT:** When folding the handle for storage or transportation, be sure to fold the handle as shown or you may damage the control cables.

- When setting up your handle from the storage position, the lower handle will automatically lock into 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. Also, experience indicates that 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.

1. Drain the fuel tank.
  2. Start the engine and let 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 drain the gas tank and carburetor if using fuel stabilizer.

#### ENGINE OIL

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

#### CYLINDER

1. Remove spark plug.
2. Pour one ounce (29 ml) of oil through spark plug hole into cylinder.
3. Pull starter handle slowly a few times to distribute oil.
4. Replace with new spark plug.

#### OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems.
- If possible, store your unit indoors and cover it to give protection from dust and dirt.
- Cover your unit with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe which allows condensation to form and will cause your unit to rust.

**IMPORTANT:** Never cover mower while engine and exhaust areas are still warm.

**CAUTION:** Never store the lawn mower with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.

**TROUBLESHOOTING CHART**

<b>PROBLEM</b>	<b>CAUSE</b>	<b>CORRECTION</b>
<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> <li>9. Control bar defective.</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean/replace air filter.</li> <li>2. Fill fuel tank.</li> <li>3. Drain tank and refill with fresh clean fuel.</li> <li>4. Drain fuel tank and carburetor and refill tank with fresh 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> <li>9. Replace control bar.</li> </ol>
<b>Loss of power</b>	<ol style="list-style-type: none"> <li>1. Rear of lawn mower housing or cutting blade dragging in heavy 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. Set to "Higher Cut" position.</li> <li>2. Set to "Higher Cut" position.</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 an authorized service center.</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 starter rope.</li> <li>2. Contact an authorized service center.</li> <li>3. Replace blade adapter.</li> <li>4. Move lawn mower to cut grass or to hard surface.</li> </ol>

### TROUBLESHOOTING CHART

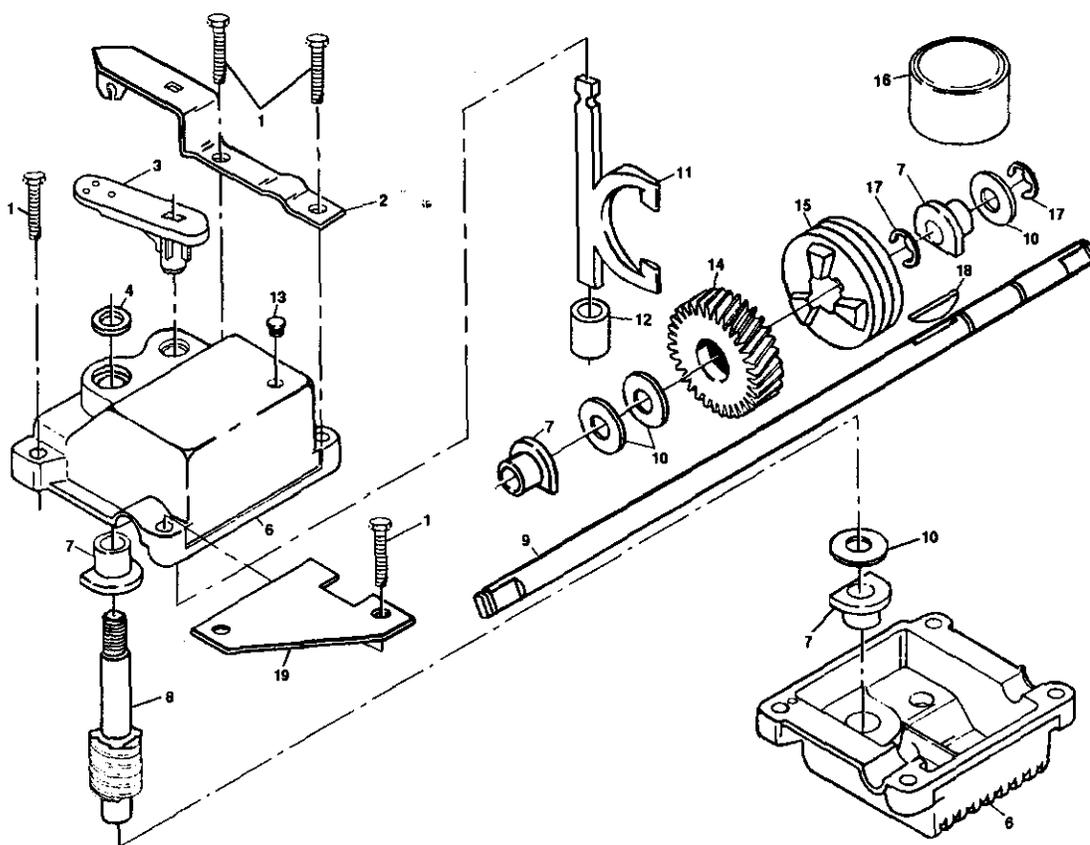
<b>PROBLEM</b>	<b>CAUSE</b>	<b>CORRECTION</b>
<b>Loss of drive</b>	<ol style="list-style-type: none"><li>1. Drive wheels not turning with drive control engaged.</li><li>2. Belt not driving</li></ol>	<ol style="list-style-type: none"><li>1. Adjust or replace drive control cable.</li><li>2. Put belt on pulleys or replace belts if broken.</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 lawn 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 lawn mower housing one (1) setting higher.</li><li>3. Empty grass catcher.</li><li>4. Adjust handle height to suit.</li></ol>



# REPAIR PARTS

ROTARY LAWN MOWER -- MODEL NO. 917.377151

GEAR CASE ASSEMBLY PART NUMBER 702511

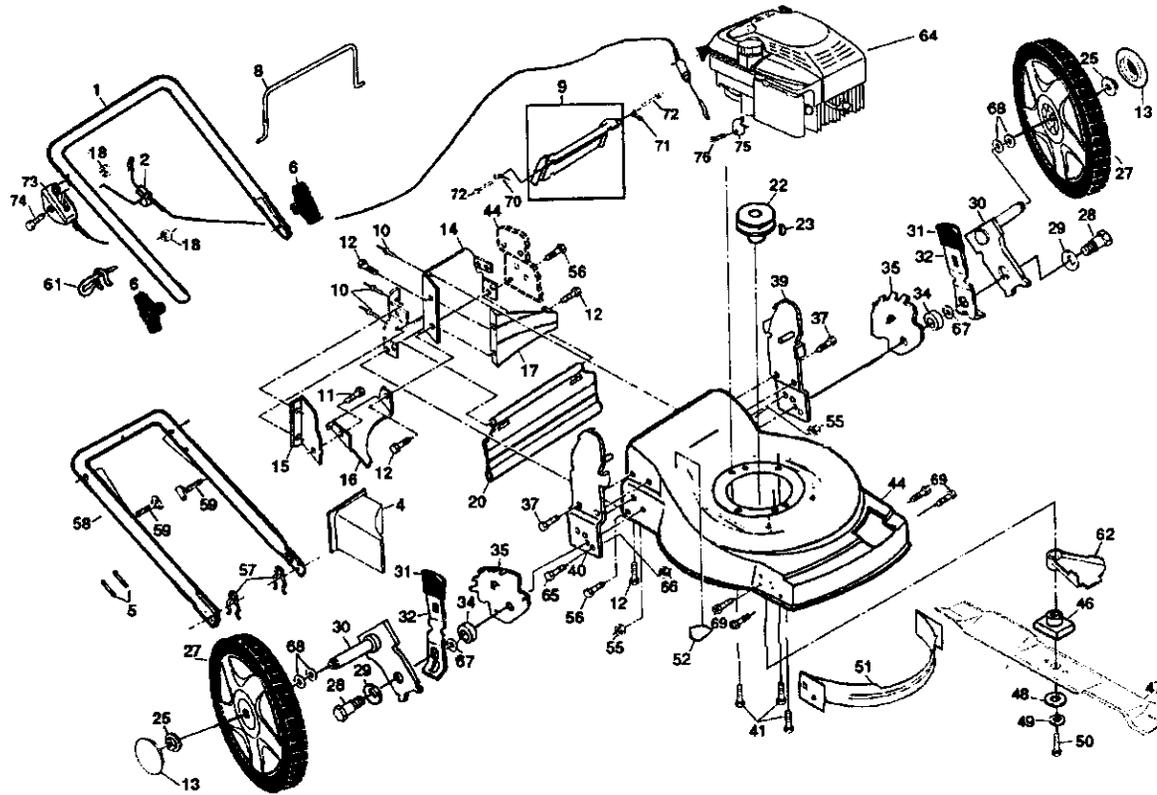


KEY PART NO.	PART NO.	DESCRIPTION
1	17490416	Tapping Screw 1/4-20 x 1-1/4
2	137055X004	Engagement Bracket
3	137053	Shifter
4	57072	Seal
6	48373	Gear Case Halves Kit (Includes Key Nos. 4, and 7)
7	77881	Bearing
8	137051	Worm Shaft
9	137074	Drive Shaft
10	57079	Hardened Washer

KEY PART NO.	PART NO.	DESCRIPTION
11	131484	Clutch Yoke
12	700343	Bushing
13	86447	Plug
14	137050	Helical Gear
15	750436X	Clutch Jaw
16	750369	Grease
17	12000003	E-Ring
18	850848	Hi-Pro Key
19	81585X004	Spring Bracket

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

ROTARY LAWN MOWER MODEL NUMBER 917.377151



## ROTARY LAWN MOWER MODEL NUMBER 917.377151

KEY PART NO.	NO.	DESCRIPTION
1	166860X479	Upper Handle
2	130861	Engine Zone Control Cable
4	150425	Mulcher Plug
5	66426	Wire Tie
6	136376	Handle Knob
8	146771	Control Bar
9	170947	Rear Door Kit
10	128415	Pop Rivet
11	150050	Self Tapping Screw #10-24 x 5/8
12	STD512505	Hex Tapping Screw w/Sems 1/4-20 x 1/2
13	151440	Hubcap
14	156374X479	Back Plate
15	700365X479	Side Baffle
16	133190X479	Discharge Baffle
17	140661X479	Rear Baffle
18	63601	Keps Locknut 1/4-20
20	140540	Rear Skirt
22	84596	Engine Pulley
23	87677	Hi-Pro Key #505
25	83923	Hex Flange Nut
27	151138	Wheel
28	142748	Shoulder Bolt 3/8-16 x 1
29	61651	Belleville Washer
30	750913X004	Axle Arm Assembly
31	161961	Selector Knob
32	170136X004	Selector Spring
34	146630	Spacer
35	700325X007	Wheel Adjusting Bracket
37	150078	Thread Cutting Screw w/Sems 5/16-18 x 3/4
39	173571X479	Handle Bracket Assembly (Left)
40	173572X479	Handle Bracket Assembly (Right)
41	150406	Hex Head Thread Rolling Screw 3/8-16 x 1-1/8
44	172835	Lawn Mower Housing (Incl. Key #14, 15, 51 &
46	851514	Blade Adapter
47	141114	Blade 22"

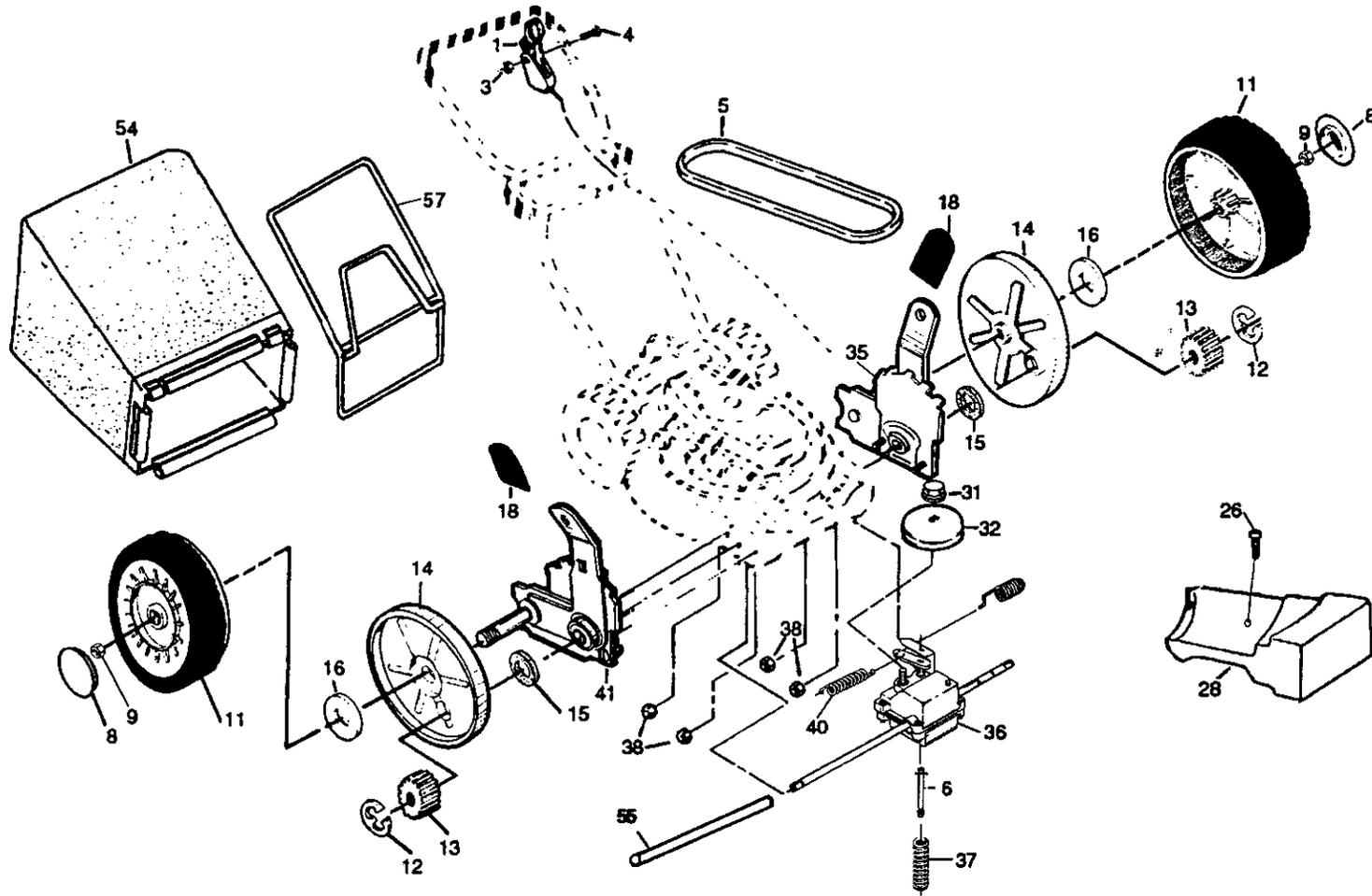
KEY PART NO.	NO.	DESCRIPTION
48	851074	Hardened Washer
49	850263	Helical Washer 3/8-24 x 1-3/8 Gr. 8
50	851084	Hex Head Machine Screw 3/8-24 x 1-3/8 Gr. 8
51	170031	Front Baffle Kit
52	85463	Danger Decal
55	751592	Locknut 3/8-16
56	88652	Hinge Screw 1/4-20 x 1-1/4
57	51793	Hairpin Cotter
58	151590X479	Lower Handle
59	131959	Handle Bolt
61	132001	Rope Guide
62	134612	Debris Shield
64	-----	Engine - (See Breakdown) Briggs12H802-2640-B1
65	74760612	Bolt
66	751592	Nut
67	88348	Washer
68	57143	Wave Washer
--	161058	Warning Decal (Not Shown)
69	17600406	Screw
70	170938	Spring LH
71	170939	Spring RH
72	165912	Bolt
73	700417	Throttle
74	144929	Screw
75	111190X	Clamp
76	83816	Screw
--	175430	Owner's Manual (English/Spanish)

Available accessories not included with lawn mower:

--	<u>D98</u> 33313	Clipping Deflector
--	<u>Z1</u> 33623	Gas Can (2.5 gal.)
--	<u>Z1</u> 33500	Fuel Stabilizer
--	<u>Z1</u> 33300	SAE 30W Oil (20 oz.)
--	<u>Z1</u> 33417	Dust Shield
--	<u>Z1</u> 33316	Mower Cover

ROTARY LAWN MOWER MODEL NUMBER 917.377151

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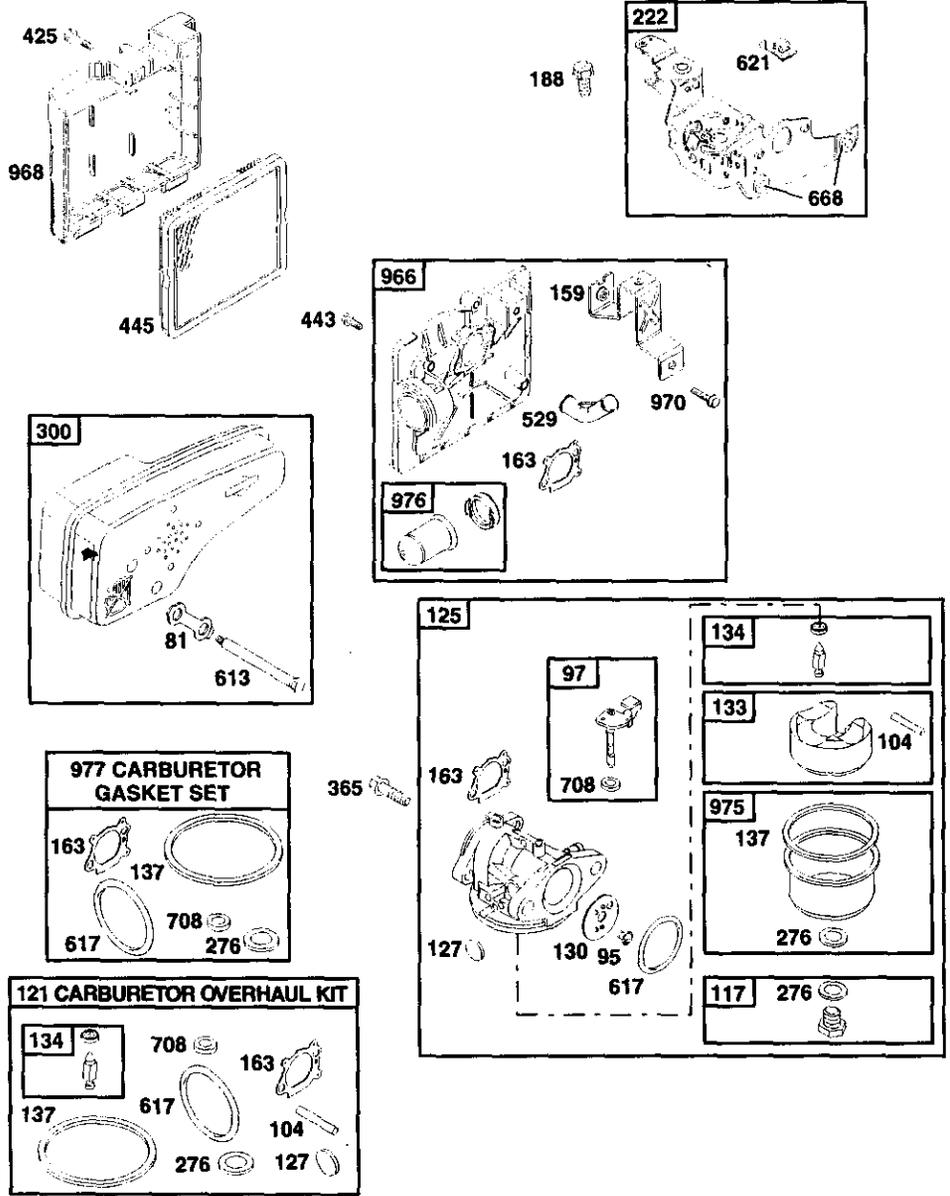
## ROTARY LAWN MOWER MODEL NUMBER 917.377151

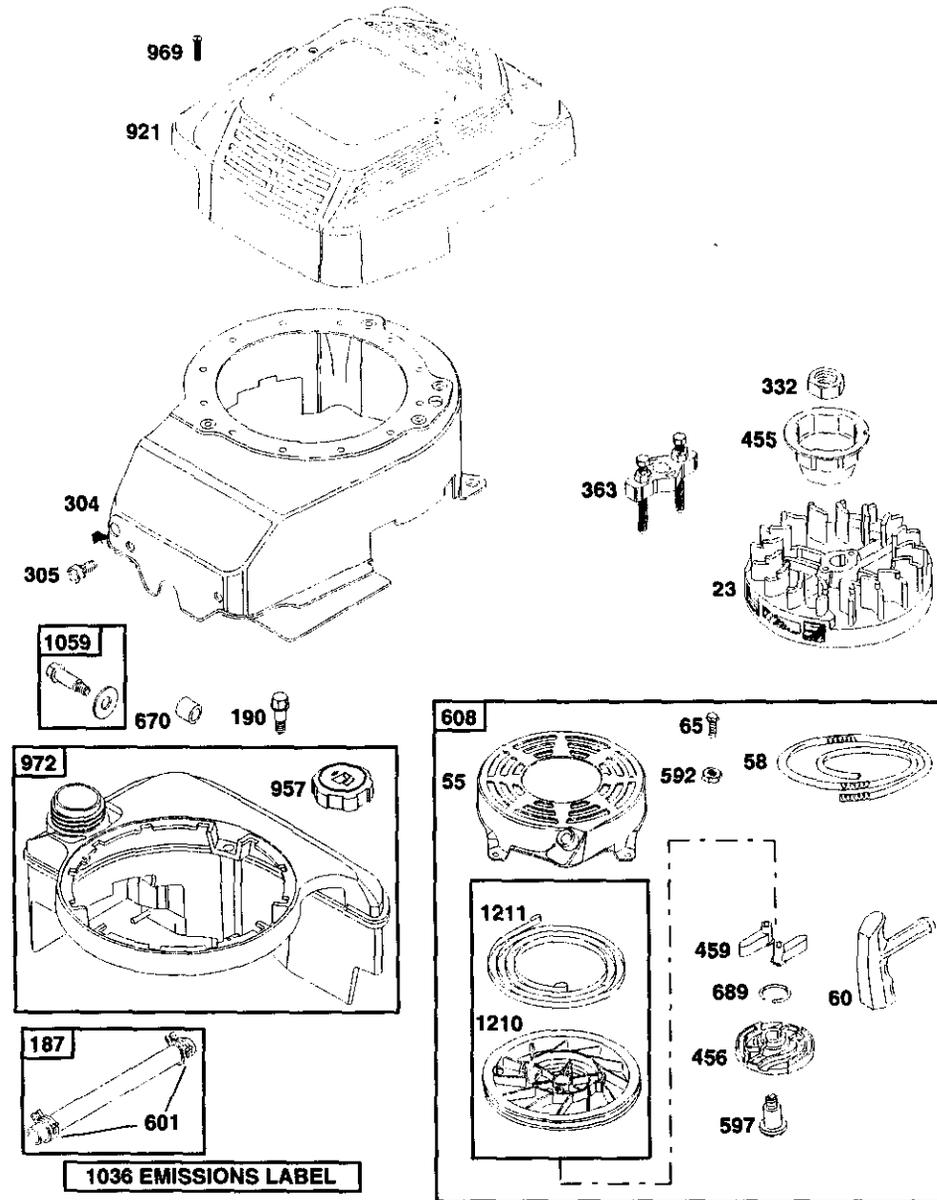
KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION		
1	145755	Control Cable Assembly	26	143603	Pan Head Tapping Screw #10-24
3	751152	Locknut #10-24	28	154990	Drive Cover
4	158755	Pan Head Machine Screw 1/4 x 2.12	31	132010	Hex Flange Nut
5	146527	V-Belt	32	137052	Drive Pulley
6	150495	Spring Retainer	35	151521	Wheel Adjuster Assembly (Left)
8	150182	Hubcap	36	702511	Gear Case Assembly Kit #
9	145212	Flanged Nut	37	137090	Spring
11	150340	Wheel & Tire Assembly	38	63601	Locknut
12	12000058	E-Ring	40	75192	Spring
13	137054	Pinion	41	151520	Wheel Adjuster Assembly (Right)
14	88080	Dust Cover	54	169932	Grassbag Assembly
15	88118	Felt Washer	55	86012	Driveshaft Cover
16	67725	Washer 1/2 x 1-1/2 x .134	57	169931	Frame
18	701037	Selector Knob			



**BRIGGS & STRATTON  
4-CYCLE ENGINE**

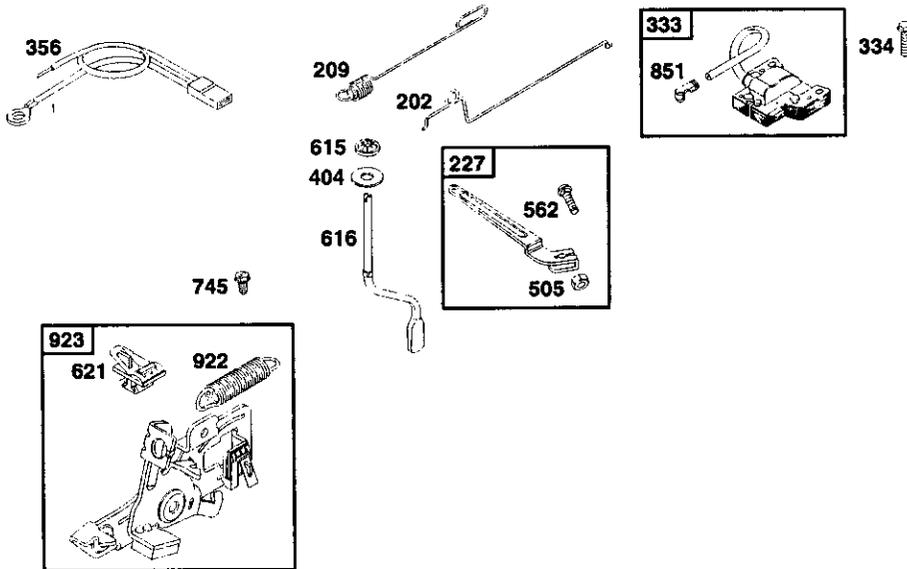
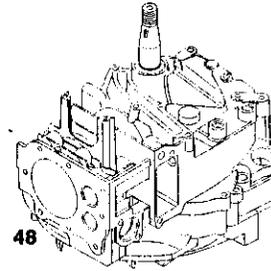
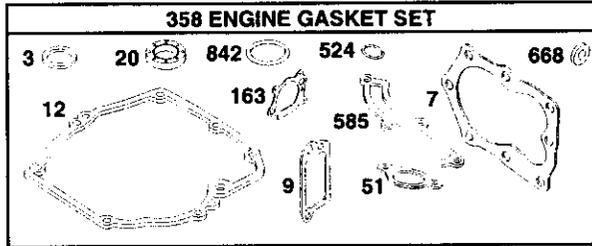
**MODEL NO. 12H802  
TYPE NO. 2640-B1**





**BRIGGS & STRATTON  
4-CYCLE ENGINE**

**MODEL NO. 12H802  
TYPE NO. 2640-B1**



**BRIGGS & STRATTON  
4-CYCLE ENGINE**

**MODEL NO. 12H802  
TYPE NO. 2640-B1**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	493260	Cylinder Assembly	43	691997	Slinger-Governor/Oil
2	399269	Kit-Bushing/Seal	45	690548	Tappet-Valve
3	299819	• Seal-Oil (Magneto Side)	46	691449	Camshaft
4	493279	Sump-Engine	48	498826	Short Block (Replacement Engine 12J802-2915-B1)
5	691160	Head-Cylinder	50	497465	Manifold-Intake
7	692249	•+ Gasket-Cylinder Head	51	272199	• Gasket-Intake
8	695250	Breather Assembly	54	691650	Screw (Intake Manifold)
9	272481	•+ Gasket-Breather	55	691421	Housing-Rewind Starter
10	691125	Screw (Breather Assembly)	58	692259	Rope-Starter (Cut to Required Length)
11	691781	Tube-Breather	60	281434	Grip-Starter Rope
12	692232	• Gasket-Crankcase	65	690759	Screw (Rewind Starter)
13	690912	Screw (Cylinder Head)	81	691740	Lock-Muffler Screw
15	691680	Plug-Oil Drain	95	691636	Screw (Throttle Valve)
16	691451	Crankshaft	97	493267	Shaft-Throttle
20	399781	• Seal-Oil (PTO Side)	104	691242	∅ Pin-Float Hinge
22	691092	Screw (Engine Sump)	117	494870	Jet-Main (Standard)
23	692315	Flywheel	121	498260	Jet-Main (High Altitude)
24	222698	Key-Flywheel	125	498170	Kit-Carburetor Overhaul
25	499429	Piston Assembly (Standard)	127	694468	∅ Carburetor
	499430	Piston Assembly (.010" O.S.)	130	691203	∅ Plug-Welch
	499431	Piston Assembly (.020" O.S.)	133	398187	Valve-Throttle
	499432	Piston Assembly (.030" O.S.)	134	398188	∅ Float-Carburetor
26	499425	Ring Set-Piston (Standard)	137	693981	∅‡ Gasket-Float Bowl
	499426	Ring Set-Piston (.010" O.S.)	146	690979	Key-Timing
	499427	Ring Set-Piston (.020" O.S.)	159	691753	Bracket-Air Cleaner Primer
	499428	Ring Set-Piston (.030" O.S.)	163	272653	•∅‡ Gasket-Air Cleaner
27	691866	Lock-Piston Pin	187	691050	Line-Fuel (Cut to Required Length)
28	499423	Pin-Piston	188	690877	Screw (Control Bracket)
29	499424	Rod-Connecting	190	690940	Screw (Fuel Tank)
32	691664	Screw (Connecting Rod)	202	691829	Link-Mechanical Governor
32A	695759	Screw (Connecting Rod)	209	690319	Spring-Governor
33	262651	Valve-Exhaust	222	692031	Bracket-Control
34	262652	Valve-Intake			
35	691270	Spring-Valve (Intake)			
36	691270	Spring-Valve (Exhaust)			
40	692194	Retainer-Valve			

- Included in Engine Gasket Set, Key. No. 358
- ∅ Included in Carburetor Overhaul Kit, Key. No. 121
- ‡ Included in Carburetor Gasket Set, Key. No. 977
- + Included in Valve Overhaul Kit, Key. No. 1095

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

**BRIGGS & STRATTON  
4-CYCLE ENGINE**

**MODEL NO. 12H802  
TYPE NO. 2640-B1**

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
227	690783	Control Lever-Governor	617	270344	Ø‡ Seal-O Ring (Intake Manifold)
276	271716	Ø‡ Sealing Washer	621	692310	Switch-Stop
287	690940	Screw (Dipstick Tube)	635	66538	Boot-Sparkplug
300	692038	Muffler	668	493823	• Spacer (Includes 2)
304	695892	Housing-Blower	670	692294	Spacer-Fuel Tank
305	691108	Screw (Blower Housing)	684	690345	Screw (Breather Passage Cover)
306	690450	Shield-Cylinder	689	691855	Spring-Friction
307	690345	Screw (Cylinder Shield)	708	691321	Ø‡ Seal-Throttle Shaft
332	690662	Nut (Flywheel)	741	691830	Gear-Timing
333	802574	Armature-Magneto	745	691648	Screw (Brake)
334	691061	Screw (Armature Magneto)	842	691031	• Seal-O Ring (Dipstick Tube)
337	802592	Spark Plug	847	692017	Assembly-Dipstick/Tube
356	692390	Wire-Stop	851	493880	Terminal-Sparkplug
358	497316	Engine Gasket Set	869	691155	Seat-Valve (Intake)
363	19069	Flywheel Puller	870	690380	Seat-Valve (Exhaust)
365	692524	Screw (Carburetor)	871	262001	Bushing-Guide (Exhaust)
383	89838	Wrench-Spark Plug		63709	Bushing-Guide (Intake)
404	690272	Washer (Governor Crank)	921	497233	Cover-Blower Housing
425	690670	Screw (Air Cleaner Cover)	922	692135	Spring-Brake
443	692523	Screw (Air Cleaner Primer Base)	923	695891	Brake
445	491588	Filter-Air Cleaner Cartridge	957	397974	Cap-Fuel Tank
455	691219	Cup-Flywheel	966	496116	Base-Air Cleaner Primer
456	692299	Plate-Pawl Friction	968	692298	Cover-Air Cleaner
459	281505	Pawl-Ratchet	969	690700	Screw (Blower Housing Cover)
505	231082	Nut (Governor Control Lever)	970	691669	Screw (Air Cleaner Primer Bracket)
523	495264	Dipstick	972	495224	Tank-Fuel
524	692296	• Seal-Dipstick Tube	975	493640	Bowl-Float
525	495265	Tube-Dipstick	976	496115	Primer-Carburetor
529	691923	Grommet	977	498261	Set-Carburetor Gasket
562	92613	Bolt (Governor Control Lever)	1019	494256	Kit-Label
584	692342	Cover-Breather Passage	1036	695111	Label-Emissions
585	691879	• Gasket-Breather Passage	1058	274265	Owner's Manual
592	690800	Nut (Rewind Starter)	1059	692311	Kit-Screw/Washer
597	691696	Screw (Pawl Friction Plate)	1095	498528	Set-Valve Gasket
601	95162	Clamp-Hose	1210	498144	Assembly-Pulley/Spring (Pulley)
608	497680	Starter-Rewind	1211	498144	Assembly-Pulley/Spring (Spring)
613	691340	Screw (Muffler)			
615	690340	Retainer-Governor Shaft			
616	691306	Crank-Governor			

- Included in Engine Gasket Set, Key. No. 358
- Ø Included in Carburetor Overhaul Kit, Key. No. 121
- ‡ Included in Carburetor Gasket Set, Key. No. 977
- + Included in Valve Overhaul Kit, Key. No. 1095

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

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