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Owner's Manual

**CRAFTSMAN®**

## ROTARY LAWN MOWER

675 Series Briggs & Stratton Engine

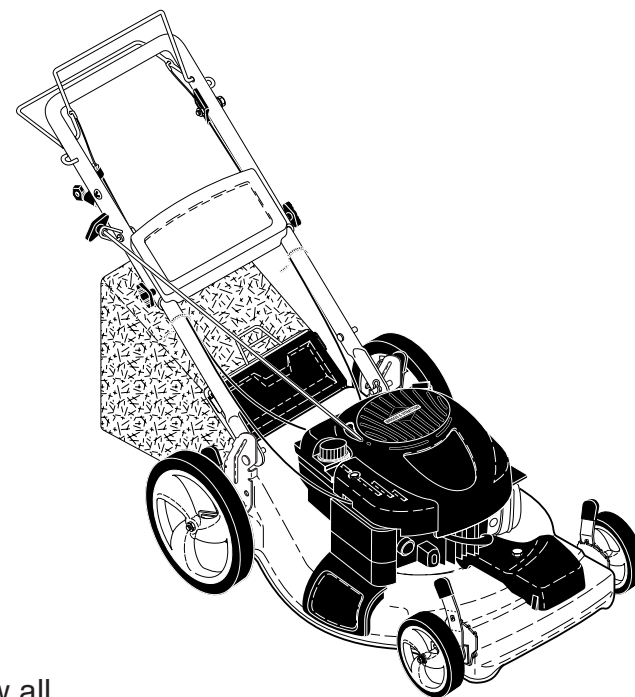
Power-Propelled

Electric Start

22" Multi-Cut

Model No.

**944.368650**



### 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.

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

## 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.



# SERVICE NOTES

- 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:	1,5 Litres (Unleaded Regular)
Oil Capacity:	0,58 Litres
Oil Type (API SG—SL):	SAE 30 (above 0°C/32°F); SAE 5W-30 (below 0°C/32°F)
Spark Plug:	Champion RJ19HX (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 neces-

sary 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.

## BRIGGS & STRATTON 4-CYCLE ENGINE

MODEL NUMBER 126T05-1136-B1

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
523	499621	Dipstick	922	691831	Spring-Brake
524	692296	• Seal-Dipstick Tube	923	691994	Brake
525	495265	Tube-Dipstick	935	398758	Switch-Interlock
529	691923	Grommet	937	691325	Spline-Starter
562	691119	Bolt (Governor Control Lever)	957	793606	Cap-Fuel Tank
564	698589	Screw (Control Cover)	966	792040	Base-Air Cleaner Primer
584	697734	Cover-Breather Passage	968	692298	Cover-Air Cleaner
585	691879	• Gasket-Breather Passage	969	690700	Screw (Blower Housing Cover)
592	690800	Nut (Rewind Starter)	972	699374	Tank-Fuel
597	691696	Screw (Pawl Friction Plate)	975	493640	Bowl-Float
601	791850	Clamp-Hose	976	496115	Primer-Carburetor
604	790703	Cover-Control	977	498261	Set-Carburetor Gasket
608	497680	Starter-Rewind	1036	- - -	Label-Emissions (Available from an Authorized Briggs & Stratton Service Dealer)
613	790833	Screw (Muffler)	1058	277039TRI	Operator's Manual
615	690340	Retainer-Governor Shaft	1059	692311	Kit-Screw/Washer
616	698801	Crank-Governor	1160	691627	Screw (Interlock Switch)
617	270344s•Ø‡	Seal-O Ring (Intake Manifold)	1210	498144	Assembly-Pulley/Spring (Pulley)
621	692310	Switch-Stop	1211	498144	Assembly-Pulley/Spring (Spring)
633	691321	Ø‡ Seal-Choke/Throttle Shaft	1329	126T07-0662	Replacement Engine (Replacement engine listed is not available in the State of California. Repair with individual parts. The original engine was equipped with a special spark plug boot and armature. The armature assembly must be transferred to the replacement engine.)
633A	693867	Ø‡ Seal-Choke/Throttle Shaft			Repair Manual
635	793351	Boot-Spark Plug			Vane-Air
651	691660	Screw (Starter Gear Cover)			Spring-Air Vane
668	493823	• Spacer (Includes 2)			Screw (Air Vane)
670	692294	Spacer-Fuel Tank			
684	690345	Screw (Breather Passage Cover)			
689	691855	Spring-Friction	1330	270962	
697	691127	Screw (Drive Cap)	1386	790848	
718	690959	Pin-Locating	1387	790849	
741	795755	Gear-Timing (Plastic)	1388	790850	
742	93941	Retainer-E Ring			
745	691648	Screw (Brake)			
783	691269	Gear-Pinion			
783A	691918	Gear-Pinion			
784	795095	Cover-Starter Gear			
785	692352	Gasket-Starter Cover			
789	696547	Harness-Wiring			
842	691031	• Seal-O Ring (Dipstick Tube)	- -	398067	Spark Arrester (available accessory)
847	692047	Assembly-Dipstick/Tube			
851	692424	Terminal-Spark Plug			
853	695268	Adapter-Wire			
868	697338	Seal-Valve			
869	691155	Seat-Valve (Intake)	Ø		Included in Carb. Overhaul Kit, Key No. 121
870	690380	Seat-Valve (Exhaust)	‡		Included in Carb. Gasket Set, Key No. 977
871	262001	Bushing-Guide (Exhaust)			
	63709	Bushing-Guide (Intake)			
883	691881	• Gasket-Exhaust			
921	790701	Cover-Blower Housing			

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



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1	697322	Cylinder Assembly	108	790844	Valve-Choke
2	399269	Kit-Bushing/Seal	109	790843	Shaft-Choke
3	299819s	• Seal-Oil (Magneto Side)	117	691428	Jet-Main (Standard)
4	493279	Sump-Engine	118	498977	Jet-Main (High Altitude)
5	691160	Head-Cylinder	121	498260	Kit-Carburetor Overhaul
7	692249	• Gasket-Cylinder Head	125	794304	Carburetor
8	695250	Breather Assembly	127	694468	Ø Plug-Welch
9	696125	Gasket-Breather	130	696564	Valve-Throttle
10	691125	Screw (Breather Assembly)	133	398187	Float-Carburetor
11	691781	Tube-Breather	134	398188	Ø Valve-Needle/Seat
12	692232	• Gasket-Crankcase	137	693981	Ø± Gasket-Float Bowl
13	690912	Screw (Cylinder Head)	163	272653s	Ø± Gasket-Air Cleaner
15	691680	Plug-Oil Drain	187	791873	Line-Fuel (Molded)
16	691450	Crankshaft	188	693399	Screw (Control Bracket)
20	399781s	• Seal-Oil (PTO Side)	190	690940	Screw (Fuel Tank)
22	691092	Screw (Engine Sump)	202	691829	Link-Mechanical Governor
23	691987	Flywheel	209	699056	Spring-Governor
24	222698s	Key-Flywheel	222	793754	Bracket-Control
25	795429	Piston Assembly (Standard)	227	690783	Control Lever-Governor
	795430	Piston Assembly (.020" Oversize)	231	691636	Screw (Choke Valve)
26	795431	Ring Set (Standard)	276	271716	Ø± Sealing Washer
	795432	Ring Set (.020" Oversize)	287	690940	Screw (Dipstick Tube)
27	691866	Lock-Piston Pin	291	790830	Thermostat
28	499423	Pin-Piston	300	790828	Muffler
29	499424	Rod-Connecting	304	791135	Housing-Blower
32	691664	Screw (Connecting Rod)	305	691108	Screw (Blower Housing)
32A	695759	Screw (Connecting Rod)	306	790836	Shield-Cylinder
33	262651s	Valve-Exhaust	307	690345	Screw (Cylinder Shield)
34	262652s	Valve-Intake	309	795092	Motor-Starter
35	691270	Spring-Valve (Intake)	332	690662	Nut (Flywheel)
36	691270	Spring-Valve (Exhaust)	333	793353	Armature-Magneto
37	694086	Guard-Flywheel	334	691061	Screw (Armature Magneto)
40	692194	Retainer-Valve	337	802592s	Plug-Spark
43	691997	Slinger-Governor/Oil	356	692390	Wire-Stop
45	690548	Tappet-Valve	358	497316	Engine Gasket Set
46	691449	Camshaft	363	19069	Flywheel Puller
48	792741	Short Block	365	692524	Screw (Carburetor)
50	794305	Manifold-Intake	383	89838s	Wrench-Spark Plug
51	794306	• Gasket-Intake	404	690272	Washer (Governor Crank)
54	691650	Screw (Intake Manifold)	425	690670	Screw (Air Cleaner Cover)
55	691421	Housing-Rewind Starter	443	692523	Screw (Air Cleaner Primer Base)
58	697316	Rope-Starter (Cut to Required Length)	445	491588s	Filter-Air Cleaner Cartridge
60	281434s	Grip-Starter Rope	455	791960	Cup-Flywheel
65	690837	Screw (Rewind Starter)	456	692299	Plate-Pawl Friction
78	691108	Screw (Flywheel Guard)	459	281505s	Pawl-Ratchet
81	691740	Lock-Muffler Screw	505	691251	Nut (Governor Control Lever)
97	696565	Shaft-Throttle	510	795093	Drive-Starter
104	691242	Ø Pin-Float Hinge	513	692358	Clutch-Drive

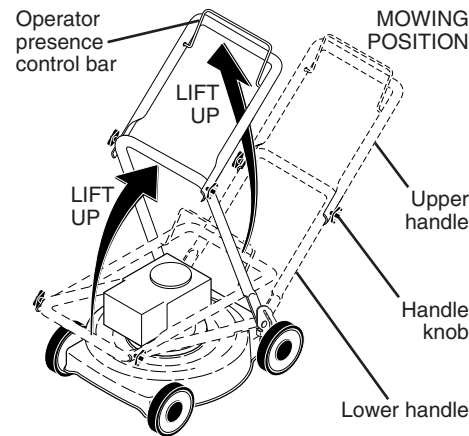
**HOW TO SET UP YOUR LAWN MOWER**

**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.

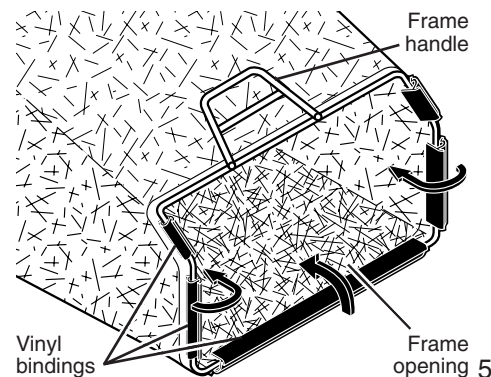
Your lawn mower handle can be adjusted for your mowing comfort. Refer to "ADJUST HANDLE" in the Service and Adjustments section of this manual.



**TO 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.



**TO PREPARE BATTERY**

**NOTE:** Your battery must be charged before you can start your lawn mower.

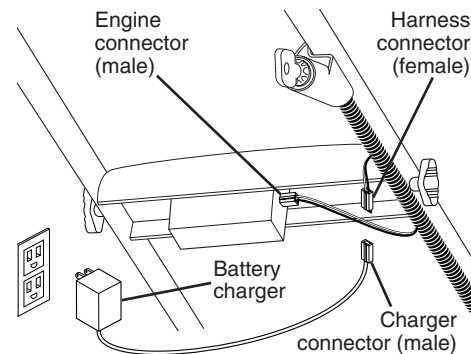
1. Connect battery charger connector (male) to harness connector (female).
2. Plug battery charger into 110 volt A.C. outlet.
3. Leave battery charger connected for 24 hours before starting your engine for the first time.
4. After charging, disconnect harness connector (female) from battery charger connector (male).

Connect your battery charger to charge battery after each use.

**IMPORTANT:** The engine will not recharge your battery.

At the end of the mowing season the battery should be charged for 48 hours to protect the battery during winter storage.

**CAUTION:** Always disconnect the engine connector (male) from the battery connector (female) to prevent accidental starting when transporting or storing your lawn mower after the season.



**TO INSTALL ATTACHMENTS**

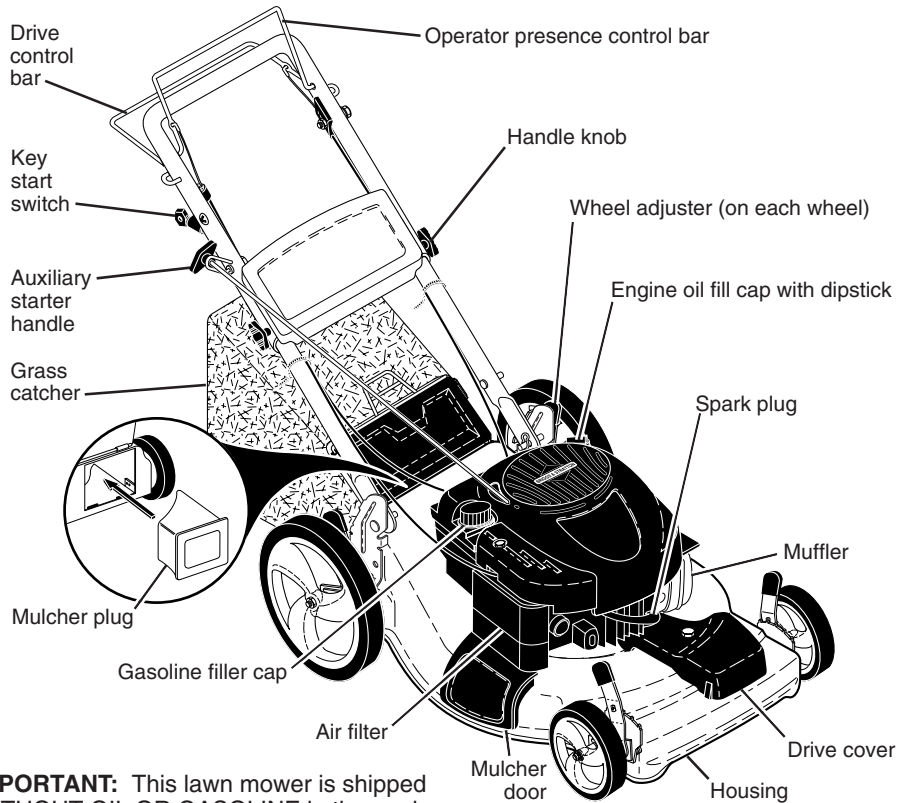
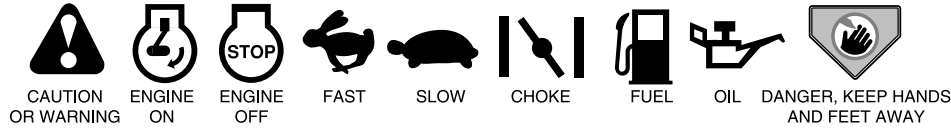
Your lawn mower was shipped ready to be used as a mulcher. To convert to bagging or discharging, see "TO CONVERT MOWER" in the Operation section of this manual.

# 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.



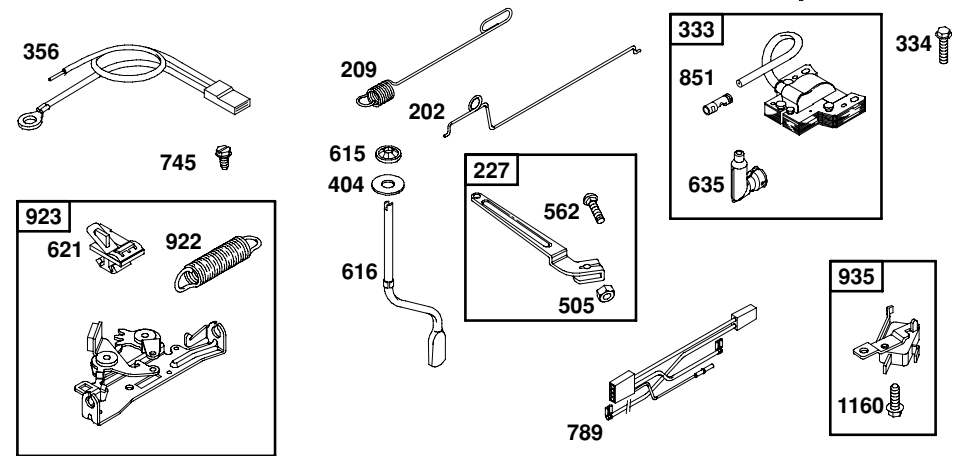
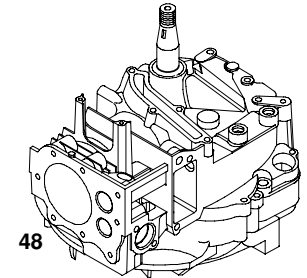
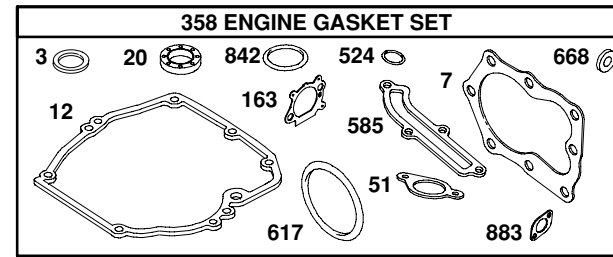
**IMPORTANT:** This lawn mower is shipped WITHOUT OIL OR GASOLINE in the engine.

## 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 lever** – must be held down to the handle to start the engine. Release to stop the engine.  
**Drive control bar** – used to engage power-propelled forward motion of mower.  
**Key start switch** – used for starting the engine.

**Auxiliary starter handle** – used for starting engine.  
**Mulcher door** – allows conversion to discharging or bagging operation.  
**Mulcher plug** – located at the rear discharge opening. Must be removed when converting to bagging operation.



## Engine Power Rating Information

The gross power rating for individual gas engine models is labeled in accordance with SAE (Society of Automotive Engineers) code J11940 (Small Engine Power & Torque Rating Procedure), and rating performance has been obtained and corrected in accordance with SAE J1995 (Revision 2002-5). Actual gross engine power will be lower and is affected by, among other things, ambient operating conditions and engine-to-engine variability. Given both the wide array of products on which engines are placed and the variety of environmental issues applicable to operating the equipment, the gas engine will not develop the rated gross power when used in a given piece of power equipment (actual "on-site" or net horsepower). This difference is due to a variety of factors including, but not limited to, accessories (air cleaner, exhaust, charging, cooling, carburetor, fuel pump, etc.), application limitations, ambient operating conditions (temperature, humidity, altitude), and engine-to-engine variability. Due to manufacturing and capacity limitations, Briggs & Stratton may substitute an engine of higher rated power for this Series engine.



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

**HOW TO USE YOUR LAWN MOWER ENGINE SPEED**

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

**ENGINE ZONE CONTROL**

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

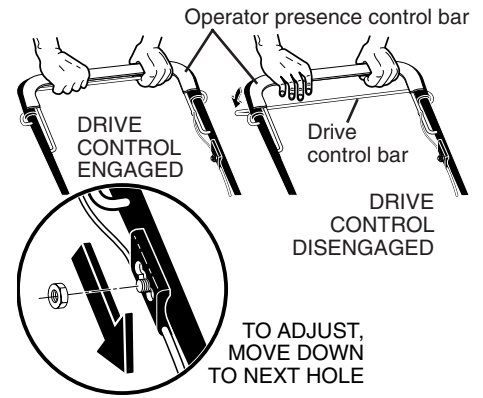
- Your lawn mower is equipped with an operator presence control bar which requires the operator to be positioned behind the lawn mower handle to start and operate the lawn mower.

**DRIVE CONTROL**

- Self-propelling is controlled by holding the operator presence control bar down to the handle and pulling the drive control bar up to the handle. The closer to the handle the bar is pulled, the faster the unit will travel.
- Forward motion will stop when either the operator presence control bar or drive control bar are released. To stop forward motion without stopping engine, release the drive control bar only. Hold operator presence control bar down against handle to continue mowing without self-propelling.

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

- To keep drive control engaged when turning corners, push down on the handle to lift the front wheels off the ground while turning lawn mower.



**DRIVE CONTROL ADJUSTMENT**

Over time, the drive control system may become "loose", resulting in decreased speed. There is a thumbscrew on the underside of the drive control housing to increase tension on the drive cable. Proceed as follows:

- Turn unit off and disconnect spark plug wire from spark plug.
- Rotate thumbscrew counter-clockwise to tighten the drive cable.
- Operate mower to test drive speed.
- If condition fails to improve after the above steps (forward speed remains the same), your drive belt is worn and should be replaced.

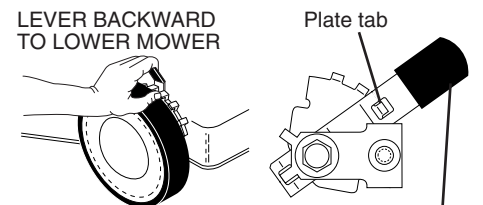
**NOTE:** If mower begins to "creep" forward, the drive cable is too tight. Rotate thumbscrew clockwise to loosen drive cable.

**TO ADJUST CUTTING HEIGHT**

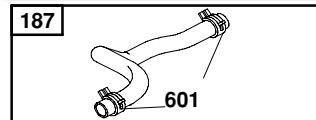
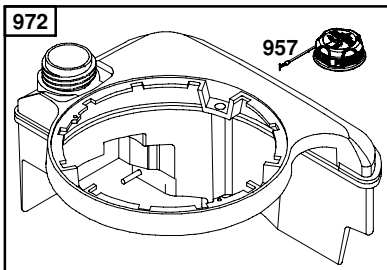
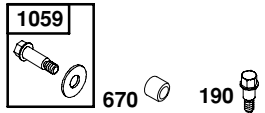
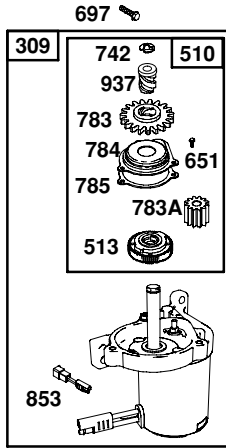
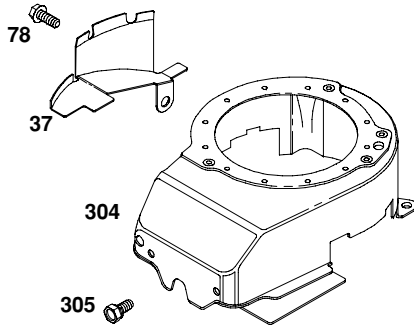
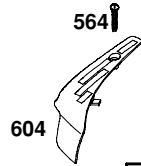
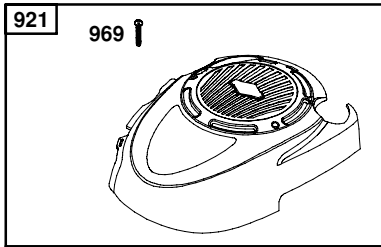
Raise wheels for low cut and lower wheels for high cut, adjust cutting height to suit your requirements. Medium position is best for most lawns.

- 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.

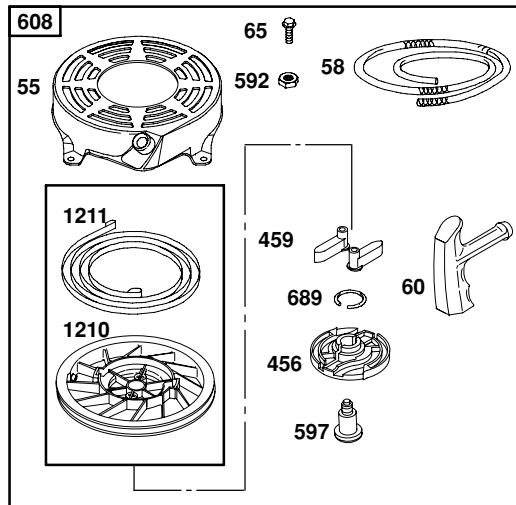
**NOTE:** Adjuster is properly positioned when plate tab inserts into hole in lever. Also, 9-position adjusters (if so equipped) allow lever to be positioned between the plate tabs.



7 LEVER BACKWARD TO LOWER MOWER LEVER FORWARD TO RAISE MOWER



1036 EMISSIONS LABEL



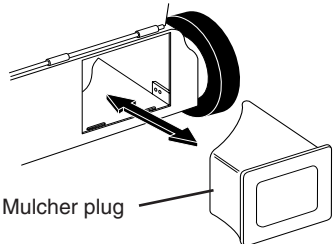


## TO CONVERT MOWER

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

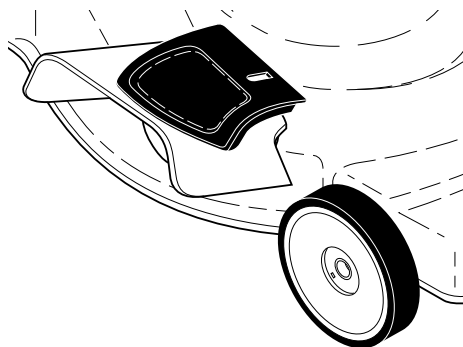
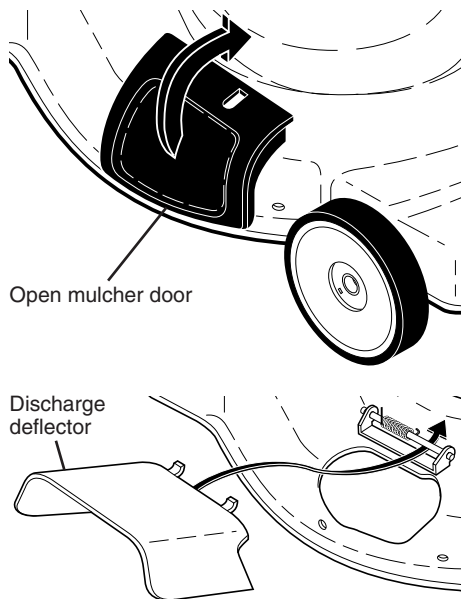
### REAR BAGGING

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



### SIDE DISCHARGING

- Mulcher plug must be installed into rear discharge opening of mower.
- Open mulcher door and install discharge deflector under door as shown.
- Mower is now ready for discharging operation.
- To convert to mulching or bagging operation, discharge deflector must be removed and mulcher door closed.



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

#### FOR MULCHING -

1. Rear mulcher plug installed.
2. Mulcher door closed.

#### FOR REAR BAGGING -

1. Rear mulcher plug removed.
2. Grass catcher installed.
3. Mulcher door closed.

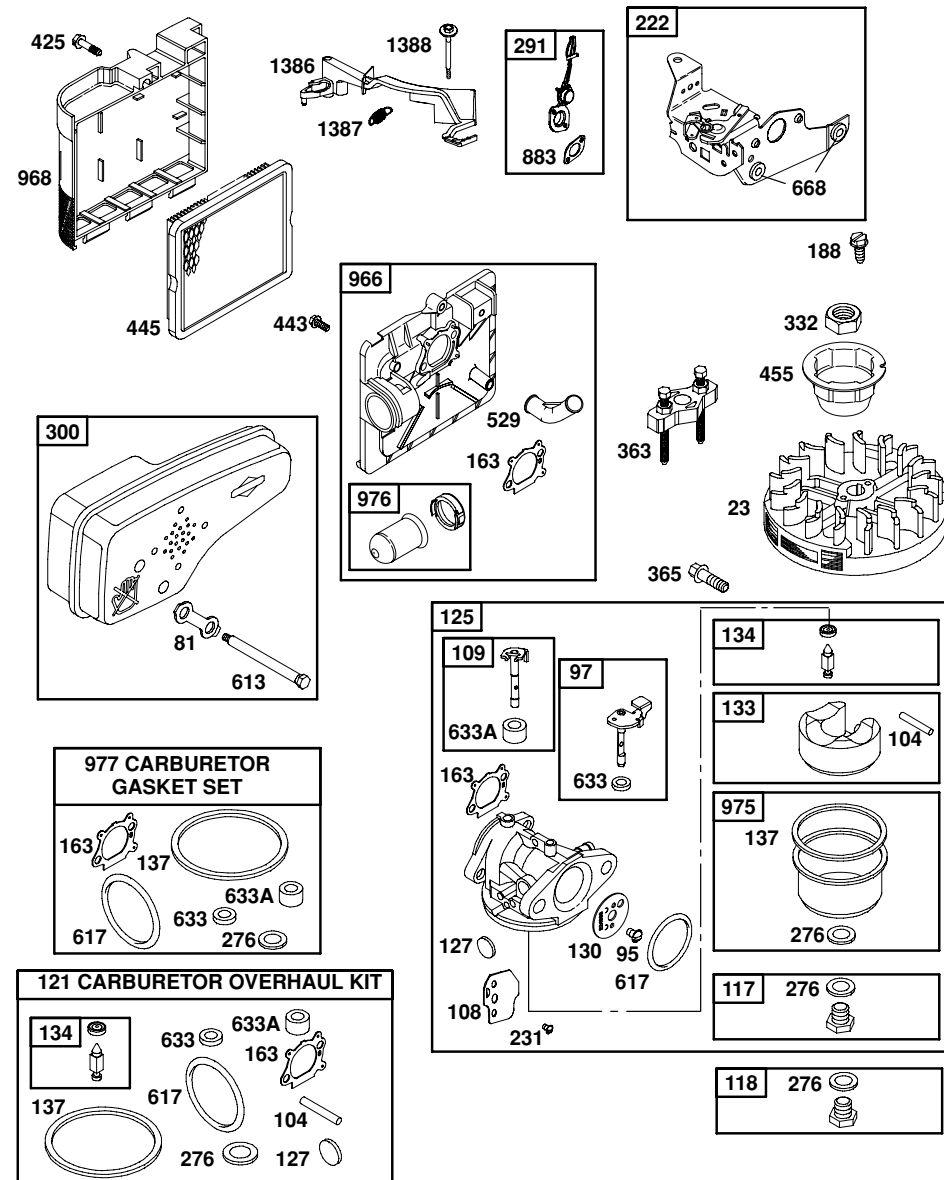
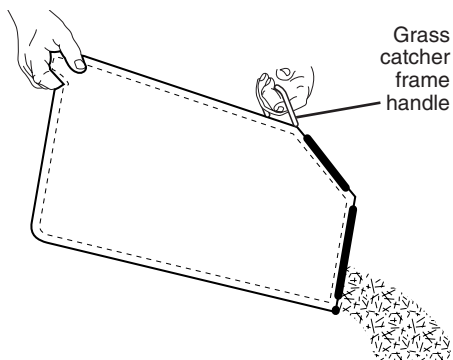
#### FOR SIDE DISCHARGING -

1. Rear mulcher plug installed.
2. Discharge deflector installed.

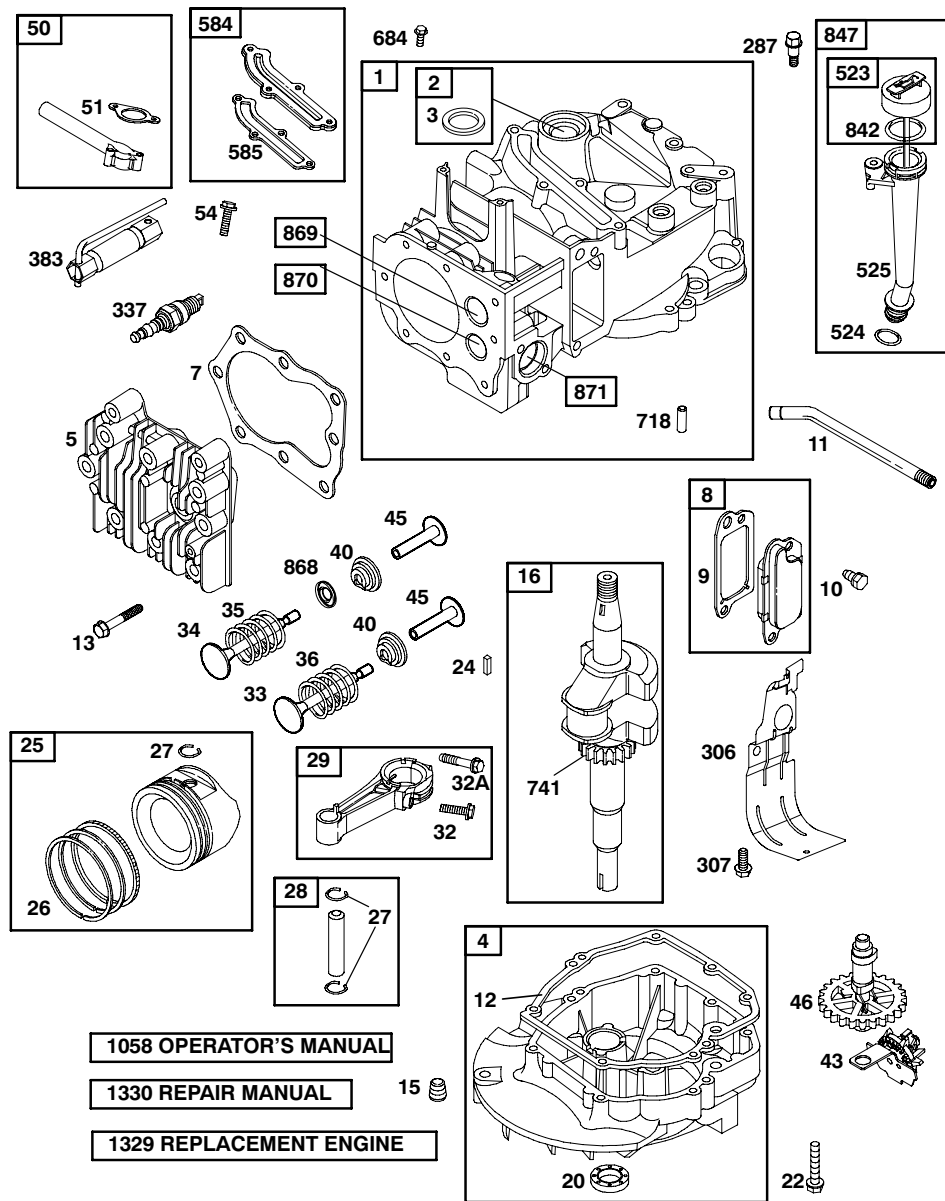
**CAUTION:** Do not run your lawn mower without mulcher plug, clipping deflector or approved grass catcher in place. Never attempt to operate the lawn mower with the rear door removed or propped open.

### TO EMPTY GRASS CATCHER

1. Lift up on grass catcher using the frame handle.
  2. Remove grass catcher with clippings from under lawn mower handle.
  3. Empty clippings from bag.
- NOTE:** Do not drag the bag when emptying; it will cause unnecessary wear.







1058 OPERATOR'S MANUAL

1330 REPAIR MANUAL

1329 REPLACEMENT ENGINE

**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.

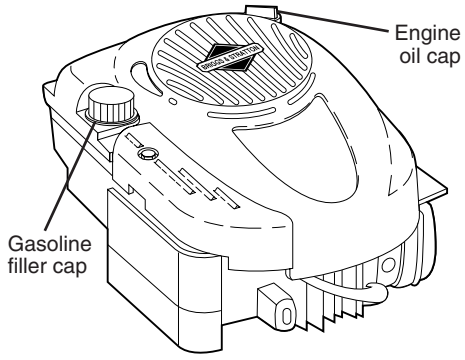
**CAUTION:** DO NOT overfill engine with oil, or it will smoke heavily from the muffler on startup.

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 manufacturers 100% quality testing. When changing oil you may need 20 oz.

**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.



**ATTACH FUEL CAP CARTRIDGE**

Your mower is equipped with a special *FRESH START™* fuel cap and continuous fuel preserver cartridge. See the information and instructions packed with the *FRESH START™* cartridge.

1. Snap cartridge into bottom of fuel cap.
- NOTE:** Do not remove the silver foil seal on the side of cartridge that snaps into fuel cap.
2. Grasp the white peel tab and pull to remove the entire seal.
3. Screw fuel cap onto fuel tank after filling tank with gasoline.

Replace cartridge when empty (about once a season). Check preserver level visually.

**DANGER:** Cartridge fluid is **HARMFUL OR FATAL IF SWALLOWED**. Avoid contact to eyes, skin, or clothing. Do not take internally. Do not inhale fluid vapor. Keep out of reach of children. If swallowed, call a physician immediately.

**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.

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

- To start engine, hold operator presence control bar down to the handle and turn the start key.

**IMPORTANT:** Do not crank engine more than five continuous seconds between each time you try to start. Wait 5 to 10 seconds between each attempt.

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

## MOWING TIPS

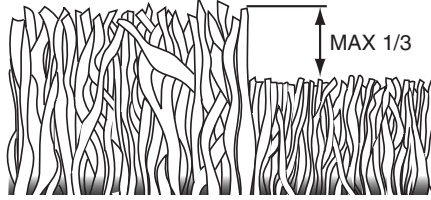
**⚠ CAUTION:** Do not use de-thatcher blade attachments on your mower. Such attachments are hazardous, will damage your mower and could void your warranty.

- Under certain conditions, such as very tall grass, it may be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of grass clippings. It may also be necessary to reduce ground speed and/or run the lawn mower over the area a second time.
- For extremely heavy cutting, reduce the width of cut by overlapping previously cut path and mow slowly.
- For better grass bagging and most cutting conditions, the engine speed should be set in the FAST position.
- Pores in cloth grass catchers can become filled with dirt and dust with use and catchers will collect less grass. To prevent this, regularly hose catcher off with water and let dry before using.
- Keep top of engine around starter clear and clean of grass clippings and chaff. This will help engine air flow and extend engine life.

## MULCHING MOWING TIPS

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

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



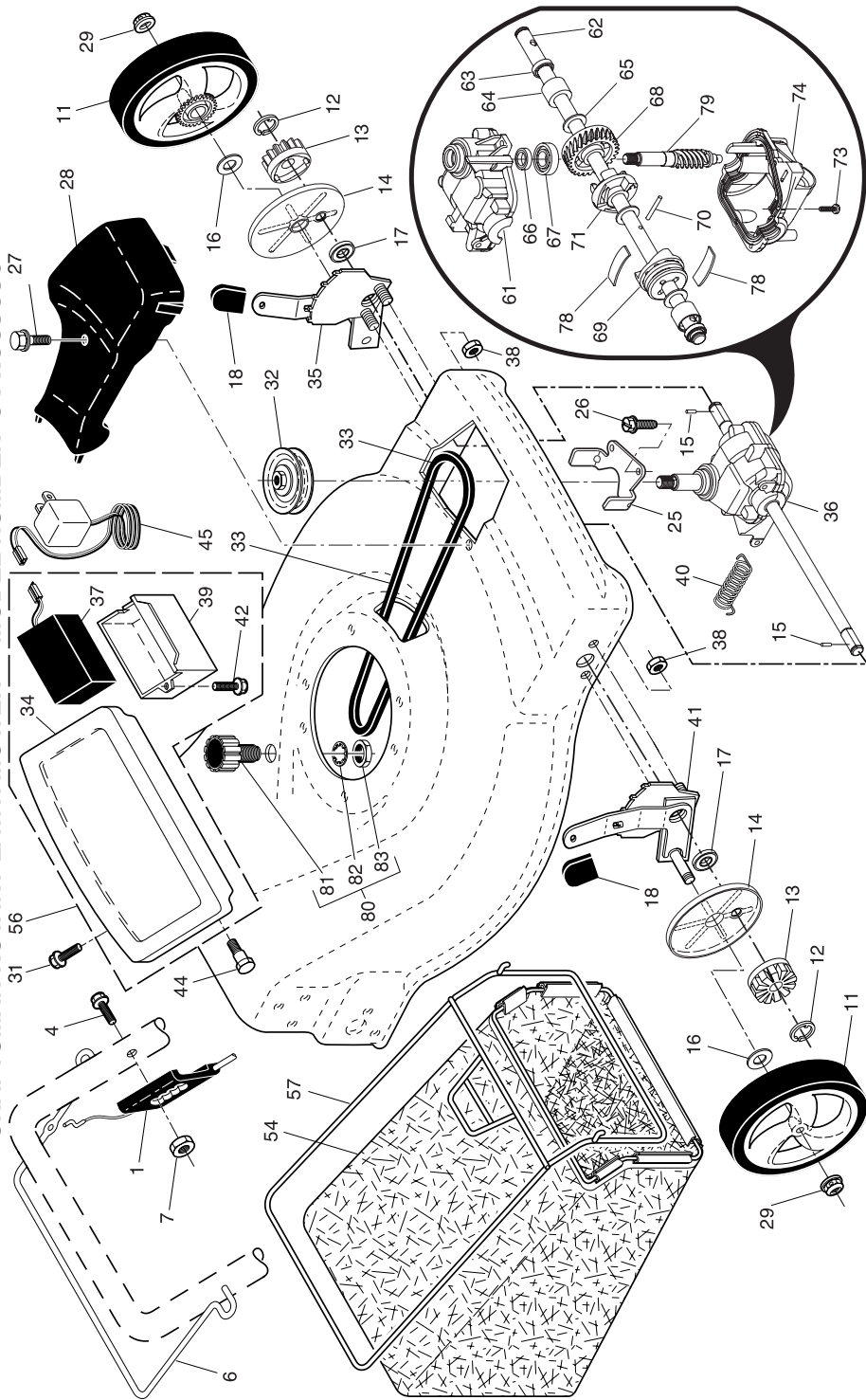
- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across (perpendicular) to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.

## CRAFTSMAN ROTARY LAWN MOWER -- MODEL NUMBER 944.368650

KEY PART NO.	DESCRIPTION	KEY PART NO.	DESCRIPTION
1	407816 Drive Control Assembly (Includes Cable)	40	406558 Spring
4	199687 Screw, Hex Washer Head	41	408861 Kit, Wheel Adjuster, RH (Includes Knob and Bearing)
6	194185X615 Bar, Drive Control	42	17411308 Screw, Battery Box
7	191730 Nut, Hex, Flangelock	44	175551 Screw, Trimplate
11	407755X427 Wheel & Tire Assembly, Front	45	190097 Charger, Battery
12	12000058 E-Ring	54	410353 Grassbag Assembly
13	403849 Pinion	56	191252 Trimplate / Battery / Battery Box Assembly
14	189403 Dust Cover	57	411952 Frame, Grassbag
15	404845 Pawl, Drive	61	410726 Case, Upper
16	67725 Washer, Flat 3/8	62	410728 Shaft, Output
17	191039 Bearing, Wheel Adjuster	63	183508 Seal, Output Shaft
18	701037 Selector Knob	64	183511 Bushing
25	404843X004 Belt Keeper	65	183509 Washer
26	163409 Screw, Hi-Lo Thread #12 x 5/8	66	183514 Seal, Worm Shaft
27	175262 Pan Head Tapping Screw #10-24 x 2-3/4	67	183506 Bearing, Ball
28	194407X428 Drive Cover	68	410729 Gear, 28 Teeth
29	409148 Locknut, Hex	69	410732 Fixed Dog Clutch
31	141841 Screw, Trimplate	70	410733 Pin
32	194018 Drive Pulley	71	410730 Movable Dog Clutch
33	196857 V-Belt	73	183513 Screw, Case
34	411190 Trimplate	74	410734 Case, Lower
35	408862 Kit, Wheel Adjuster, LH (Includes Knob and Bearing)	78	410731 Spring, Leaf
36	404834 Gear Case Assembly, Complete	79	410727 Shaft, Worm
37	189589 Battery	80	415086 Water Washout Assembly
38	73800400 Locknut 1/4-20	81	417961 Fitting, Hose, Water Washout
39	186237 Battery Box	82	415585 Washer, Lock, Internal Tooth
		83	415586 Locknut, Hex, with O-Ring

**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.

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



**MAINTENANCE**

<b>MAINTENANCE SCHEDULE</b>		<b>BEFORE EACH USE</b>	<b>AFTER EACH USE</b>	<b>EVERY 10 HOURS</b>	<b>EVERY 25 HOURS OR SEASON</b>	<b>EVERY 100 HOURS</b>	<b>BEFORE STORAGE</b>
<b>LAWN MOWER</b>	Check for Loose Fasteners	✓					✓
	Clean / Inspect Grass Catcher *	✓	✓				✓
	Check Tires	✓					
	Check Drive Wheels ***	✓					
<b>ENGINE</b>	Clean Lawn Mower ****		✓				✓
	Clean under Drive Cover ***			✓			
	Check Drive Belt / Pulleys ***				✓		
	Check / Sharpen / Replace Blade				✓ <sub>3</sub>		
Lubrication					✓ <sub>3</sub>		
Clean and Recharge Battery **					✓ <sub>3</sub>		✓ <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					✓ <sub>2</sub>		
Replace Spark Plug					✓ <sub>2</sub>		✓
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.

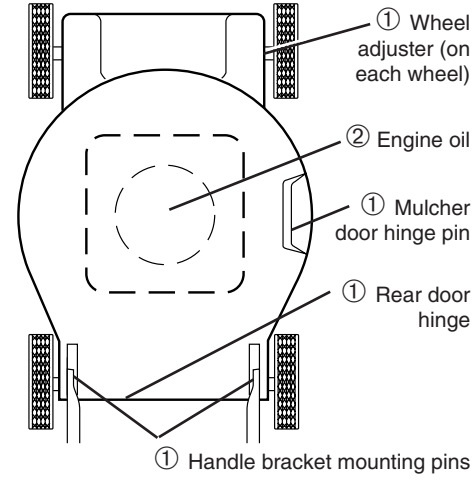
**BEFORE EACH USE**

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

### 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.

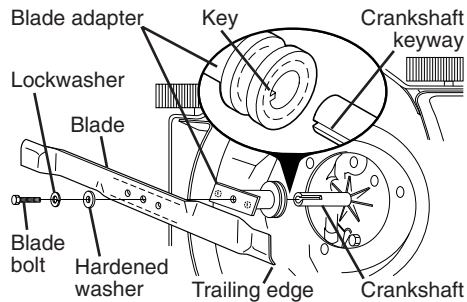
#### TO REPLACE BLADE

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 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. / 47-54 N-m.

**IMPORTANT:** Blade bolt is heat treated. If bolt needs replacing, replace only with approved bolt shown in the Repair Parts section of this manual.



### TO SHARPEN BLADE

**NOTE:** We do not recommend sharpening blade - but if you do, be sure the blade is balanced. Care should be taken to keep the blade balanced. An unbalanced blade will cause eventual damage to lawn mower or engine.

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.
- To check blade balance, drive a nail into a beam or wall. Leave about one inch of the straight nail exposed. Place center hole of blade over the head of the nail. If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, sharpen the heavy end until the blade is balanced.

### GRASS CATCHER

- The grass catcher may be hosed with water, but must be dry when used.
- Check your grass catcher often for damage or 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.

## CRAFTSMAN ROTARY LAWN MOWER -- MODEL NUMBER 944.368650

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION
1	402419 Upper Handle Assembly (Includes Foam Grip)	51	170031 Kit, Front Baffle (Includes Key Number 53)	64	--- Engine, Briggs & Stratton, Model Number 126T05-1136-B1 (See Breakdown)
2	189686 Key Start Switch	52	404763 Danger Decal	65	197480 O-Ring
3	850733X004 Bracket, Upstop	53	17600406 Screw, Serrated, Type TT 1/4-20	69	197991 Clip, Cable
4	166649 Mulcher Plug	54	88348 Washer, Flat	71	188839X004 Mounting Bracket, Debris Shield
5	66426 Wire Tie	55	751592 Nut, Hex 3/8-16	70	186362 Grip, Foam
6	189713X428 Handle Knob	56	88652 Hinge Screw 1/4-20 x 1-1/4	75	186159 Screw
7	750634 Screw	57	51793 Hairpin Cotter	76	180331 Key
8	194199X428 Control Bar	58	400512X479 Lower Handle	--	404764 Warning Decal (not shown)
9	401813X428 Rear Door Assembly	59	191574 Handle Bolt	--	419557 Owner's Manual, English
10	128415 Pop Rivet	60	74760612 Bolt, Hex Head 3/8-16 x 3/4	--	419558 Owner's Manual, French
11	150050 Screw, Self-Tapping #10-24 x 5/8	62	405842 Debris Shield		
12	54583 Screw, Hex Hex Head, Sems 1/4-20 x 1/2	63	192325 Screw, Debris Shield		
14	195622X479 Back Plate				
15	410545X479 Side Baffle				
16	176655X479 Discharge Baffle				
17	140661X479 Rear Baffle				
18	132004 Keps Locknut 1/4-20				
19	194788 Rope Guide				
20	413160 Rear Skirt				
21	405421 Spring, Rear Door, LH				
24	405423 Spring, Rear Door, RH				
25	409149 Nut, Hex, Flanged				
26	184193 Bolt, Rear Door				
27	407773X427 Wheel & Tire Assembly, Rear				
28	142748 Bolt, Shoulder 3/8-16 x 1				
29	401630 Washer, Curved, Cylindrical				
30	401180X004 Axle Arm Assembly				
31	701037 Selector Knob				
32	401626X004 Selector Spring				
33	189917X428 Mulcher Door				
34	401629 Spacer				
35	700325X005 Wheel Adjusting Bracket				
36	175735 Hinge Bracket Assembly				
37	150078 Screw, Thread Cutting Sems 5/16-18 x 3/4				
38	402574X428 Discharge Deflector				
39	195915X479 Handle Bracket Assembly, LH				
40	195914X479 Handle Bracket Assembly, RH				
41	150406 Screw, Hex Head, Threaded, Rolled 3/8-16 x 1-1/8				
42	193000 Spring, Torsion				
43	738004000 Nut, Hex, Nylon				
44	419559 Kit, Mower Housing (Includes Key Numbers 14, 15 and 51)				
45	175650 Rod, Hinge				
46	194037 Blade Adapter / Pulley				
47	406707 Blade, 22"				
48	851074 Washer, Hardened				
49	850263 Washer, Helical				
50	851084 Screw, Machine, Hex Head 3/8-24 x 1-3/8 Grade 8				

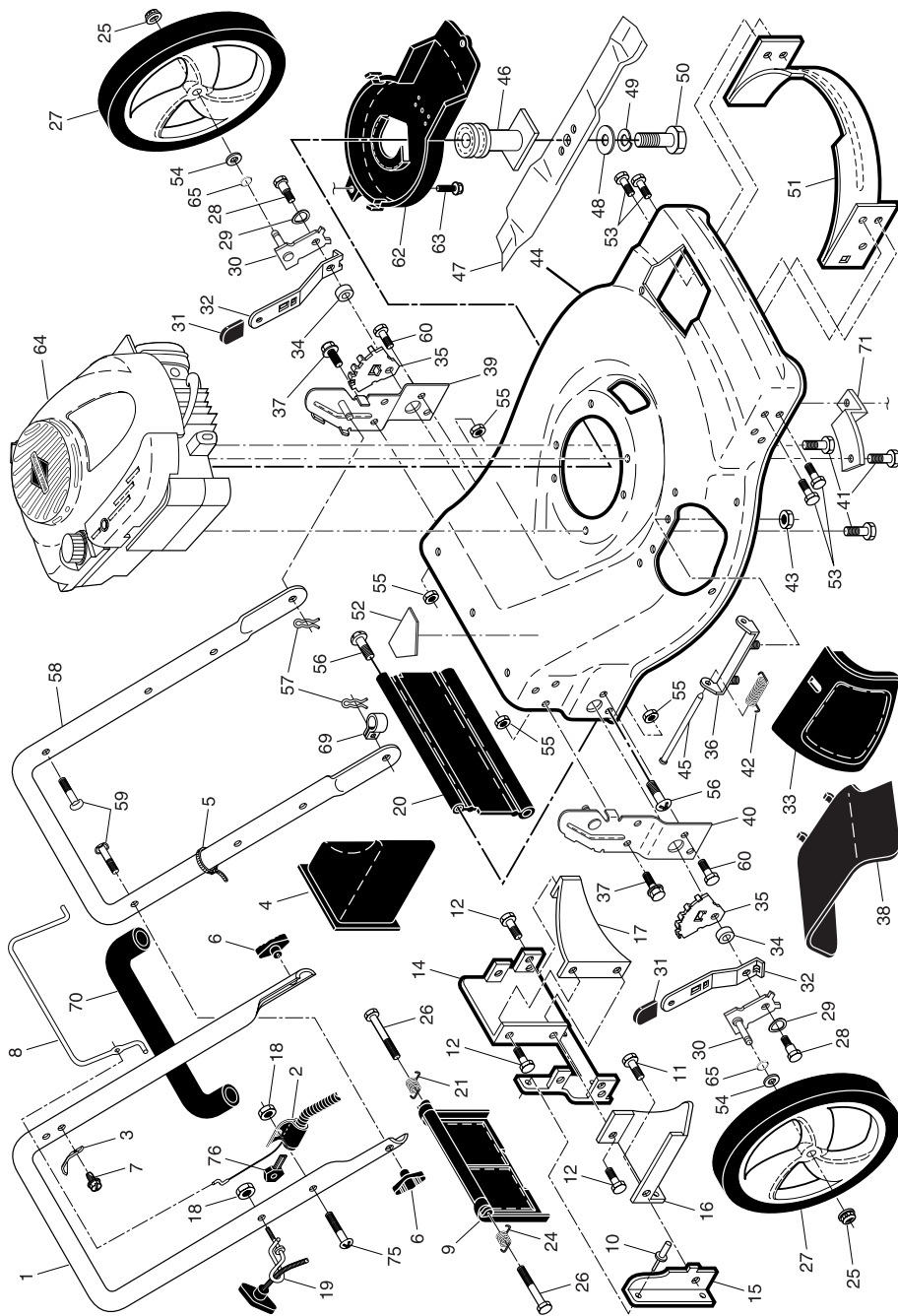
**NOTE:** All component dimensions given in U.S. inches. 1 inch = 25.4 mm.

**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.



## REPAIR PARTS

CRAFTSMAN ROTARY LAWN MOWER -- MODEL NUMBER 944.368650

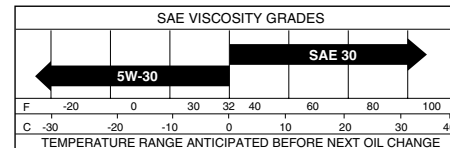


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- If lubricant is required, use only Texaco Starplex Premium 1 Grease, Part No. 750369. Do not substitute.

### 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.



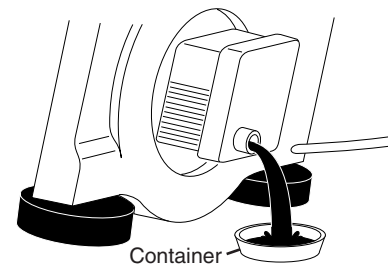
**NOTE:** Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil. Change the oil after 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

**NOTE:** Before tipping lawn mower to drain oil, empty fuel tank by running engine until fuel tank is empty.

1. Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.
2. Remove engine oil cap; lay aside on a clean surface.
3. Tip lawn mower on its side as shown and drain oil into a suitable container. Rock lawn mower back and forth to remove any oil trapped inside of engine.



4. Wipe off any spilled oil from lawn mower or side of engine.
5. Slowly pour oil down the oil fill spout, stopping every few ounces to check the oil level with the dipstick.

6. Stop adding oil when you reach the FULL mark on the dipstick. Wait a minute to allow oil to settle.
7. Continue adding small amounts of oil, rechecking the dipstick until oil level settles at FULL. DO NOT overfill, or engine will smoke heavily from the muffler on startup.
8. Always be sure to retighten oil dipstick before starting engine.
9. Reconnect spark plug wire to plug.

### AIR FILTER

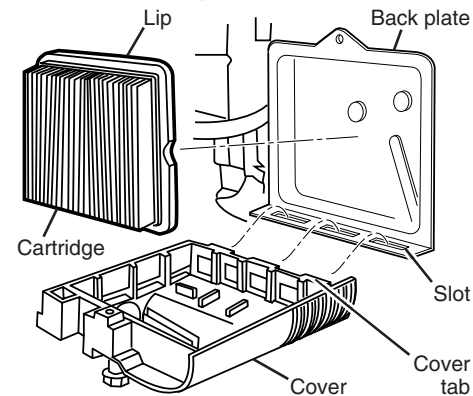
Your engine will not run properly and may be damaged by using a dirty air filter. Replace the air filter cartridge every 100 hours of operation or every season, whichever occurs first. Service air cleaner more often under dusty conditions.

### 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

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.

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## 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 underside of 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.

## WATER WASHOUT FEATURE

Your lawn mower is equipped with a fitting that allows quick and easy cleaning of the underside of the housing. To use this feature, proceed as follows:

1. Move lawn mower to an area of cut grass or another hard surface.

**NOTE:** Water, grass and other debris will drain from beneath the mower housing during the washout process.

2. Remove grass catcher and discharge chute assembly from lawn mower.
3. Close mulcher door (if equipped).
4. Connect a garden hose to the fitting where shown.

**IMPORTANT:** Be sure the garden hose is not routed under the lawn mower housing or entangled in the wheels.

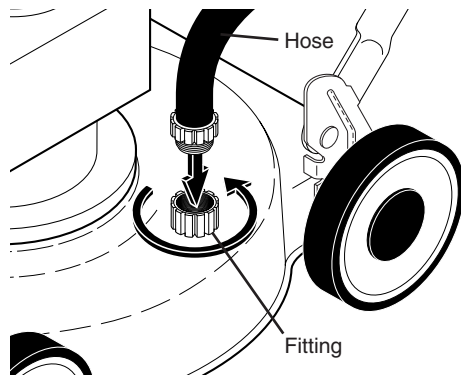
5. Turn on water supply and check for leaks at the fitting.  
If no leaks are present, start engine (as described in the Operation section of this manual) and let engine run until the underside of the lawn mower is clean.

**⚠WARNING:** Do not engage the drive system during the washout process.

6. Shut off the engine.
7. Shut off water supply and remove hose from fitting.

**CAUTION:** Do not remove hose from fitting while engine is running. Water in engine can result in shortened engine life.

8. Start engine (as described in the Operation section of this manual) and let engine run for a full minute to remove excess water from mower.



## 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.

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

PROBLEM	CAUSE	CORRECTION
<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 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 lawn mower housing or cutting 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>
<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> <li>4. “Loose” drive control system.</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> <li>4. Adjust drive control.</li> </ol>

## SERVICE AND ADJUSTMENTS

**⚠WARNING:** To avoid serious injury, before performing any service or adjustments:

1. Release control bar and stop engine.
2. Make sure the blade and all moving parts have completely stopped.
3. Disconnect spark plug wire from spark plug and place 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

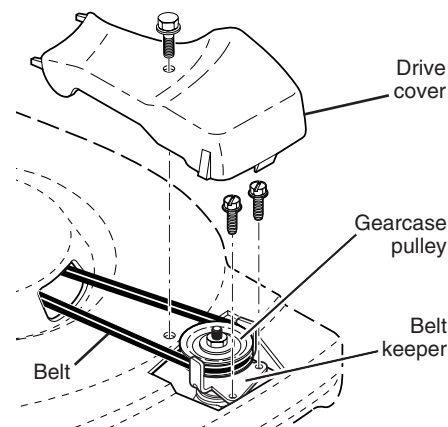
The rear deflector, attached between the rear wheels of your mower, is provided to minimize the possibility that objects will be thrown out of the rear of the mower into the operator mowing position. If the deflector becomes damaged, it should be replaced.

**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> <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>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> <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 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. 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>

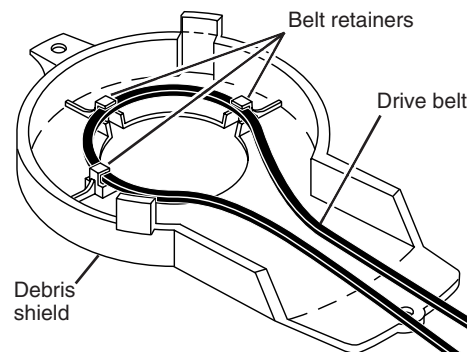
**TO REMOVE DRIVE BELT**

1. Remove drive cover and belt keeper.
2. Remove belt from gearcase pulley.
3. Turn lawn mower on its side with air filter and carburetor down.
4. Remove blade, engine pulley and debris shield.
5. Remove engine pulley and belt from debris shield.



**TO REPLACE DRIVE BELT**

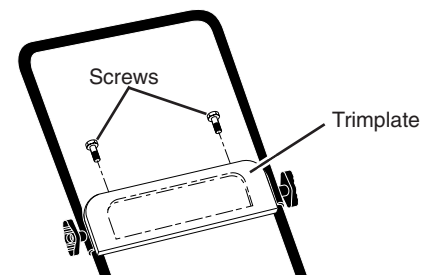
1. Place new drive belt in engine pulley and belt retainer of debris shield.
  2. Route the other end of the new drive belt through hole in housing.
  3. Reinstall debris shield.
  4. Return mower to upright position.
  5. Install new belt on gearcase pulley.
  6. Reinstall belt keeper and drive cover.
- NOTE:** Always use factory approved belt to assure proper fit and long life.
7. Turn lawn mower on its side with air filter and carburetor down.
  8. Reinstall blade.



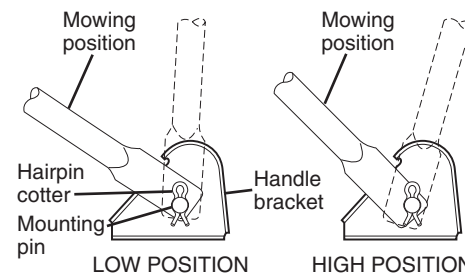
**TO ADJUST HANDLE**

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.

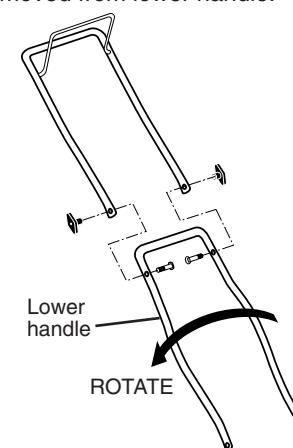
1. Remove upper handle and wire tie(s) securing cable(s) to lower handle.
2. Remove trimplate from lower handle.



3. Remove hairpin cotters from lower handle bracket mounting pin.



4. Squeeze lower handle in to remove it from mounting pins.
5. Turn lower handle over to raise or lower handle.
6. Squeeze lower handle in and position holes onto mounting pins on handle bracket.
7. Reassemble trimplate to lower handle.
8. 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 the engine is running too fast or too slow, take your lawn 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 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

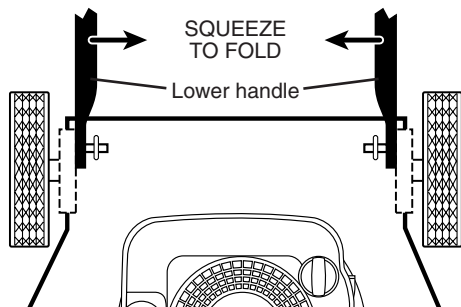
When lawn mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Store in a clean, dry area.

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.

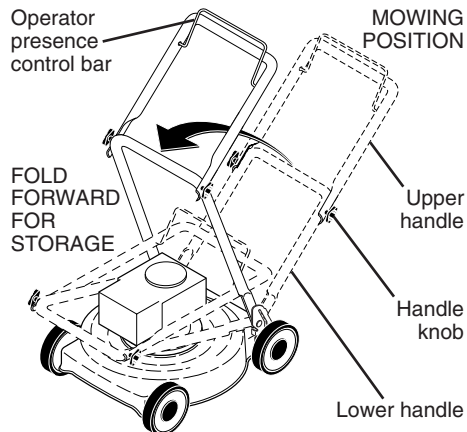
## HANDLE

You can fold your 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. 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.

**NOTE:** *FRESH START™* fuel cap and cartridge system automatically drips concentrated fuel preserver into your fuel tank and is an acceptable alternative to adding 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 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.

## BATTERY

Disconnect the battery from the engine connector and charge battery 48 hours.

## 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.