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Owner's Manual



ROTARY LAWN MOWER

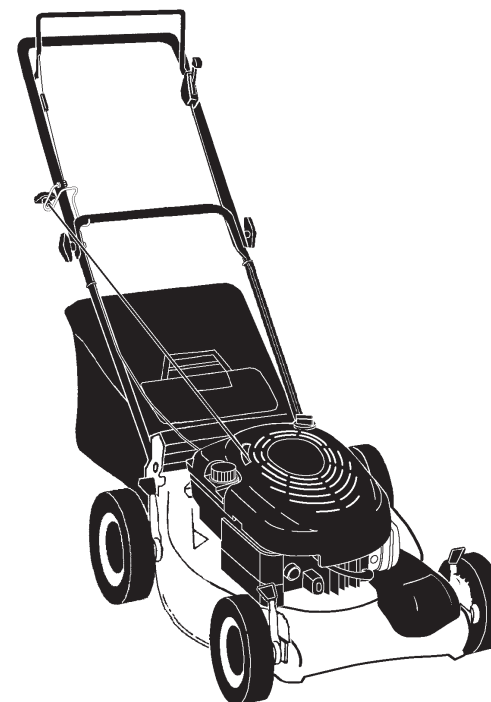
6.25 Horsepower

Power-Propelled

21" Rear Discharge

Model No.

944.363411



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.
- 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.**

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

⚠ CAUTION: Muffler and other engine parts become extremely hot during operation and remain hot after engine has stopped. To avoid severe burns on contact, stay away from these areas.



I. GENERAL OPERATION

- Read, understand, and follow all instructions on the machine and in the manual(s) before starting. Be thoroughly familiar with the controls and the proper use of the machine before starting.
- Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.
- Only allow responsible individuals, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, bones, sticks, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.

KEY PART NO.	NO.	DESCRIPTION	KEY PART NO.	NO.	DESCRIPTION
324	695161	Cup/Screen Assembly	718	690959	Pin-Locating
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-Spark Plug
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	697343	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
456	692299	Plate-Pawl Friction	966	496116	Base-Air Cleaner Primer
459	281505	Pawl-Ratchet	968	692298	Cover-Air Cleaner
505	231082	Nut (Governor Control Lever)	969	690700	Screw (Blower Housing Cover)
523	495264	Dipstick	970	691669	Screw (Air Cleaner Primer Bracket)
524	692296 •	Seal-Dipstick Tube	972	495224	Tank-Fuel
525	495265	Tube-Dipstick	975	493640	Bowl-Float
529	691923	Grommet	976	694395	Primer-Carburetor
562	92613	Bolt (Governor Control Lever)	977	498261	Set-Carburetor Gasket
584	692342	Cover-Breather Passage	1019	696438	Kit-Label
585	691879 •	Gasket-Breather Passage	1036	695111	Label-Emissions
592	690800	Nut (Rewind Starter)	1059	692311	Kit-Screw/Washer
597	691696	Screw (Pawl Friction Plate)	1210	498144	Assembly-Pulley/Spring (Pulley)
601	95162	Clamp-Hose	1211	498144	Assembly-Pulley/Spring (Spring)
608	497680	Starter-Rewind			
613	691340	Screw (Muffler)	RPM Settings:	Low Speed: 1900-2100	
615	690340	Retainer-Governor Shaft		High Speed: 3000-3200	
616	698801	Crank-Governor			
617	270344 •Ø‡	Seal-O Ring (Intake Manifold)	•	Included in Engine Gasket Set, Key No. 358	
621	692310	Switch-Stop	Ø	Included in Carburetor Overhaul Kit, Key No. 121	
633	691321 Ø‡	Seal-Throttle Shaft	‡	Included in Carburetor Gasket Set, Key No. 977	
635	66538	Boot-Spark Plug			
668	493823 •	Spacer (Includes 2)			
670	692294	Spacer-Fuel Tank			
684	690345	Screw (Breather Passage Cover)	NOTE:	All component dimensions given in U.S. inches.	
689	691855	Spring-Friction		1 inch = 25.4 mm	

KEY PART NO. NO.	DESCRIPTION	KEY PART NO. NO.	DESCRIPTION		
1	697322	Cylinder Assembly	48	498826	Short Block (Replacement Engine 123K02-0015-E1)
2	399269	Kit-Bushing/Seal	50	497465	Manifold-Intake
3	299819 •	Seal-Oil (Magneto Side)	51	272199 •	Gasket-Intake
4	493279	Sump-Engine	54	691650	Screw (Intake Manifold)
5	691160	Head-Cylinder	55	691421	Housing-Rewind Starter
7	692249 •	Gasket-Cylinder Head	58	692259	Rope-Starter (Cut to Length)
8	695250	Breather Assembly	60	281434	Grip-Starter Rope
9	696125	Gasket-Breather	65	690837	Screw (Rewind Starter)
10	691125	Screw (Breather Assembly)	78	691108	Screw (Flywheel Guard)
11	499675	Tube-Breather	81	691740	Lock-Muffler Screw
12	692232 •	Gasket-Crankcase	95	691636	Screw (Throttle Valve)
13	690912	Screw (Cylinder Head)	97	696565	Shaft-Throttle
15	691680	Plug-Oil Drain	104	691242 Ø	Pin-Float Hinge
16	691451	Crankshaft	117	498978	Jet-Main (Standard)
20	399781 •	Seal-Oil (PTO Side)	118	497466	Jet-Main (High Altitude)
22	691092	Screw (Engine Sump)	121	498260	Kit-Carburetor Overhaul
23	692315	Flywheel	125	498170	Carburetor
24	222698	Key-Flywheel	127	694468 Ø	Plug-Welch
25	499429	Piston Assembly (Standard)	130	696564	Valve-Throttle
	499430	Piston Assembly (.010" Oversize)	133	398187	Float-Carburetor
	499431	Piston Assembly (.020" Oversize)	134	398188 Ø	Valve-Needle/Seat
	499432	Piston Assembly (.030" Oversize)	137	693981 Ø‡	Gasket-Float Bowl
26	499425	Ring Set-Piston (Standard)	146	690979	Key-Timing
	499426	Ring Set-Piston (.010" Oversize)	159	691753	Bracket-Air Cleaner Primer
	499427	Ring Set-Piston (.020" Oversize)	163	272653 •Ø‡	Gasket-Air Cleaner
	499428	Ring Set-Piston (.030" Oversize)	187	691050	Line-Fuel (Cut to Required Length)
27	691866	Lock-Piston Pin	188	690877	Screw (Control Bracket)
28	499423	Pin-Piston	190	690940	Screw (Fuel Tank)
29	499424	Rod-Connecting	202	691829	Link-Mechanical Governor
32	691664	Screw (Connecting Rod)	209	690319	Spring-Governor
32A	695759	Screw (Connecting Rod)	222	692467	Bracket-Control
33	262651	Valve-Exhaust	227	690783	Control Lever-Governor
34	262652	Valve-Intake	276	271716 Ø‡	Sealing Washer
35	691270	Spring-Valve (Intake)	287	690940	Screw (Dipstick Tube)
36	691270	Spring-Valve (Exhaust)	300	692038	Muffler
37	694086	Guard-Flywheel	304	695892	Housing-Blower
40	692194	Retainer-Valve	305	691108	Screw (Blower Housing)
43	691997	Slinger-Governor/Oil	306	690450	Shield-Cylinder
45	690548	Tappet-Valve	307	690345	Screw (Cylinder Shield)
46	691449	Camshaft			

- 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.

- 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.

ASSEMBLY / PRE-OPERATION

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

IMPORTANT: This lawn mower is shipped WITHOUT OIL OR GASOLINE in the engine. Your new lawn mower has been assembled at the factory with the exception of those parts left unassembled for shipping purposes. All parts such as nuts, washers, bolts, etc., necessary to complete the assembly have been placed in the parts bag. To ensure safe and proper operation of your lawn mower, all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to ensure proper tightness.

TO REMOVE 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.

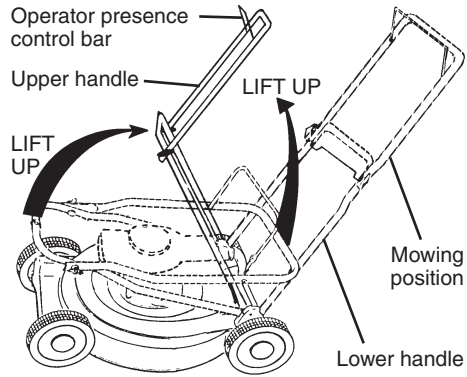
HOW TO SET UP YOUR LAWN MOWER

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.

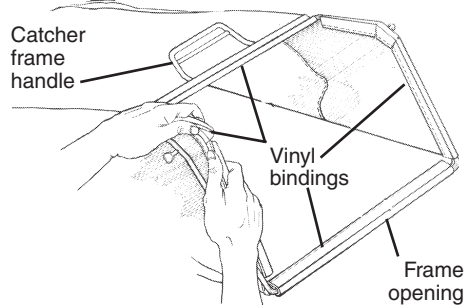


TO ASSEMBLE GRASS CATCHER

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.

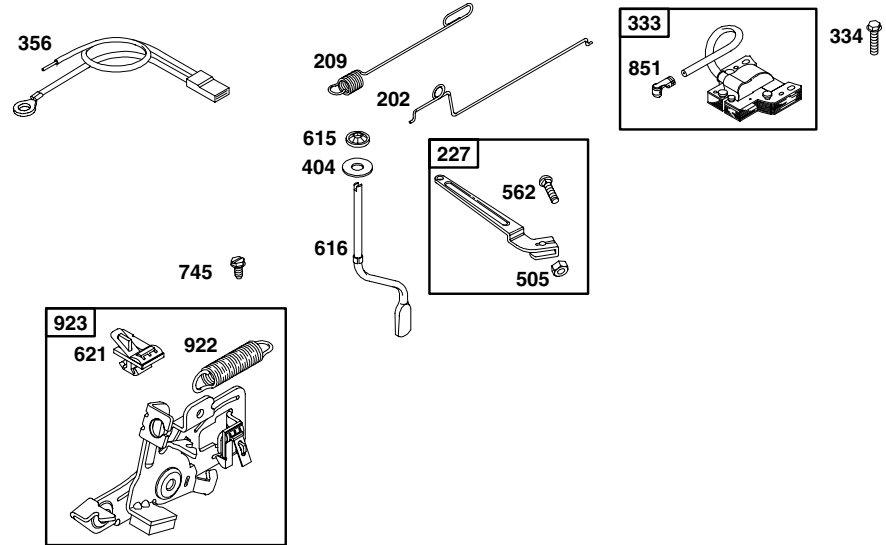
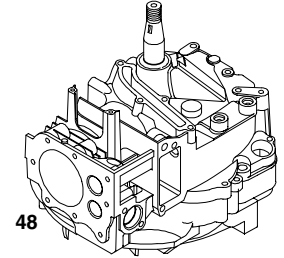
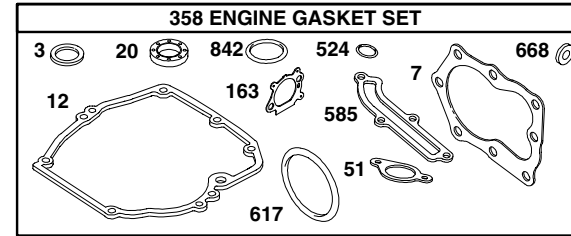
2. Slip vinyl bindings over frame.

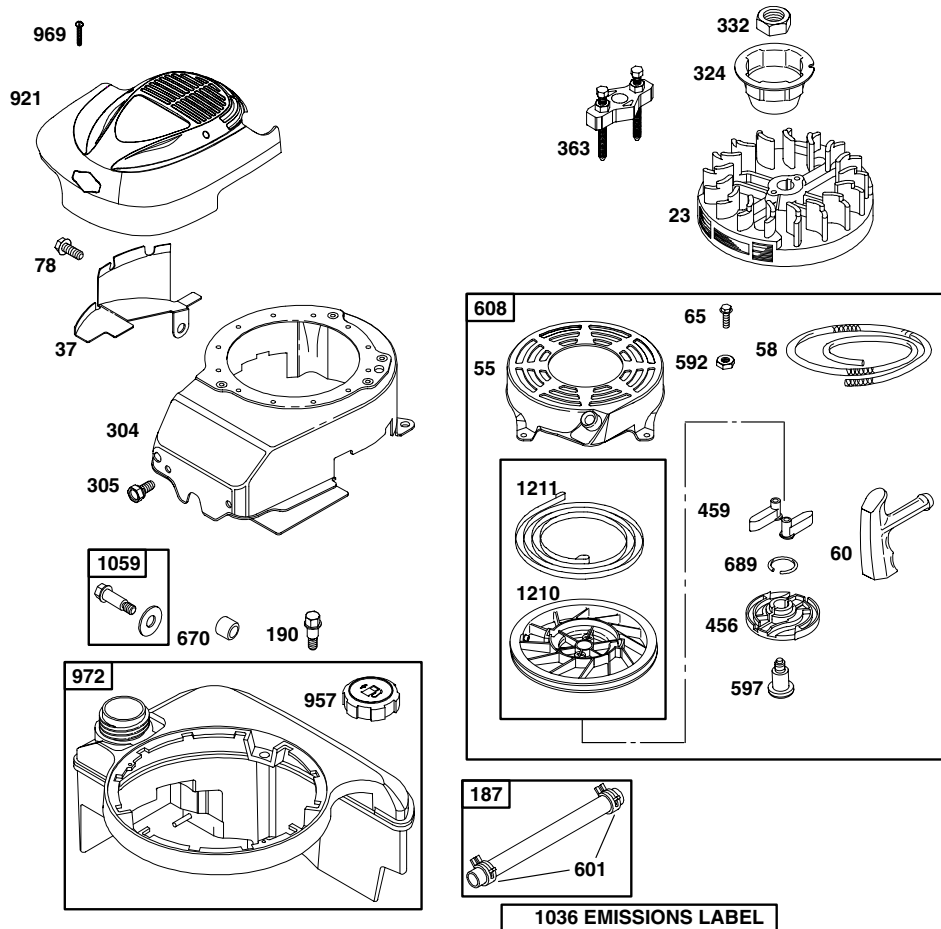
NOTE: If vinyl bindings are too stiff, hold them in warm water for a few minutes. If bag gets wet, let it dry before using.



TO INSTALL ATTACHMENTS

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



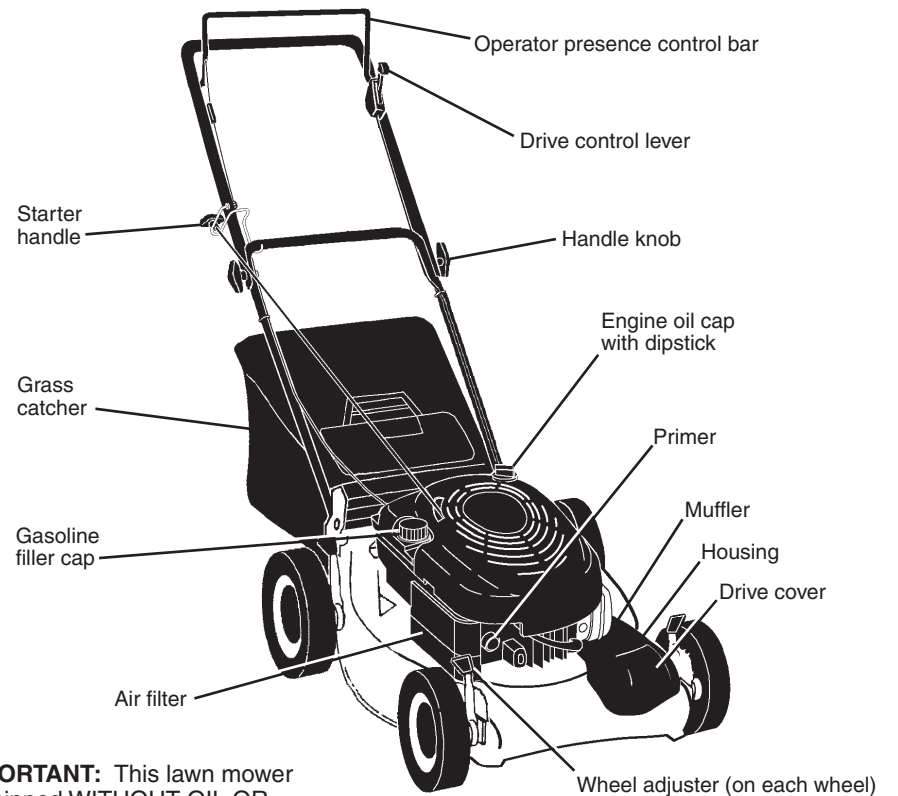
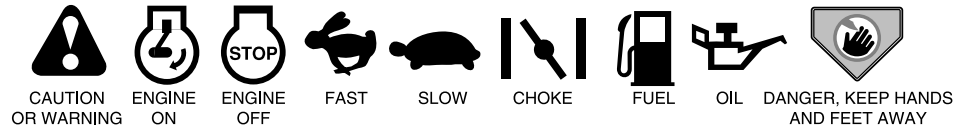


OPERATION

KNOW YOUR LAWN MOWER

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

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



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

MEETS CPSC SAFETY REQUIREMENTS

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

Operator presence control bar – must be held down to the handle to start the engine. Release to stop the engine.
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.



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. Speed is not adjustable.

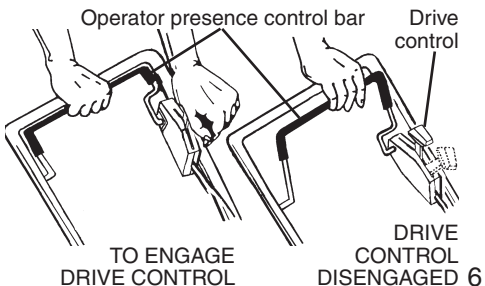
ENGINE ZONE CONTROL

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 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.



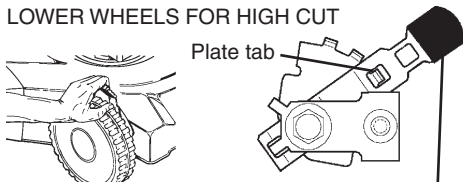
TO ADJUST CUTTING HEIGHT

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.

LOWER WHEELS FOR HIGH CUT



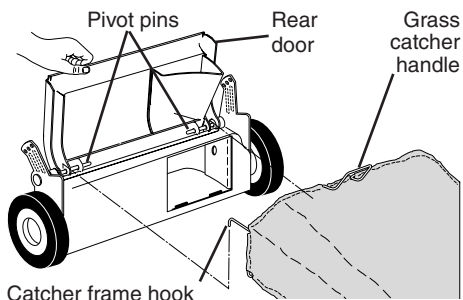
RAISE WHEELS FOR LOW CUT

TO CONVERT MOWER

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

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

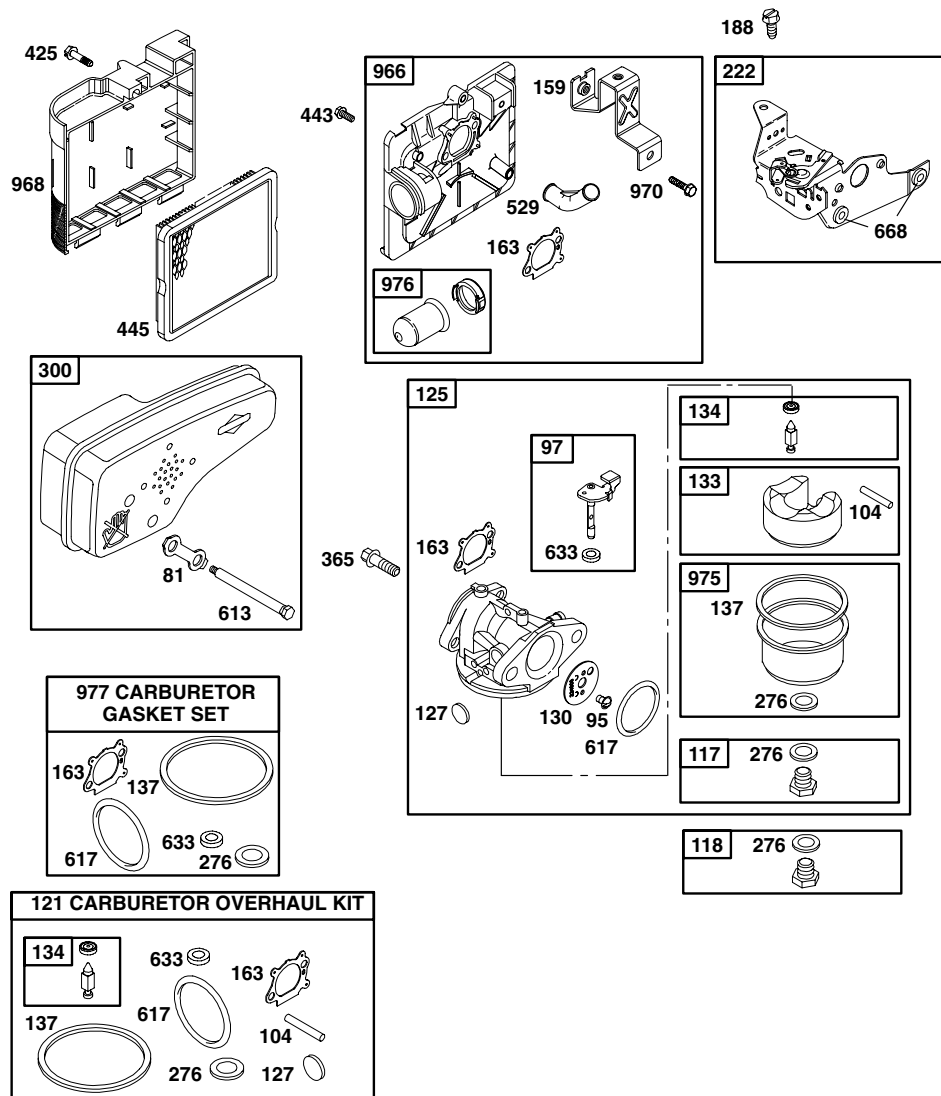
CAUTION: Do not run your lawn mower without rear door closed or approved grass catcher in place. Never attempt to operate the lawn mower with the rear door removed or propped open.

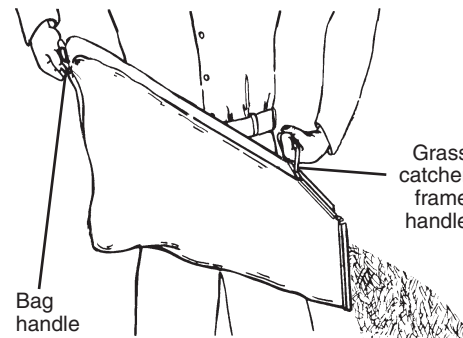
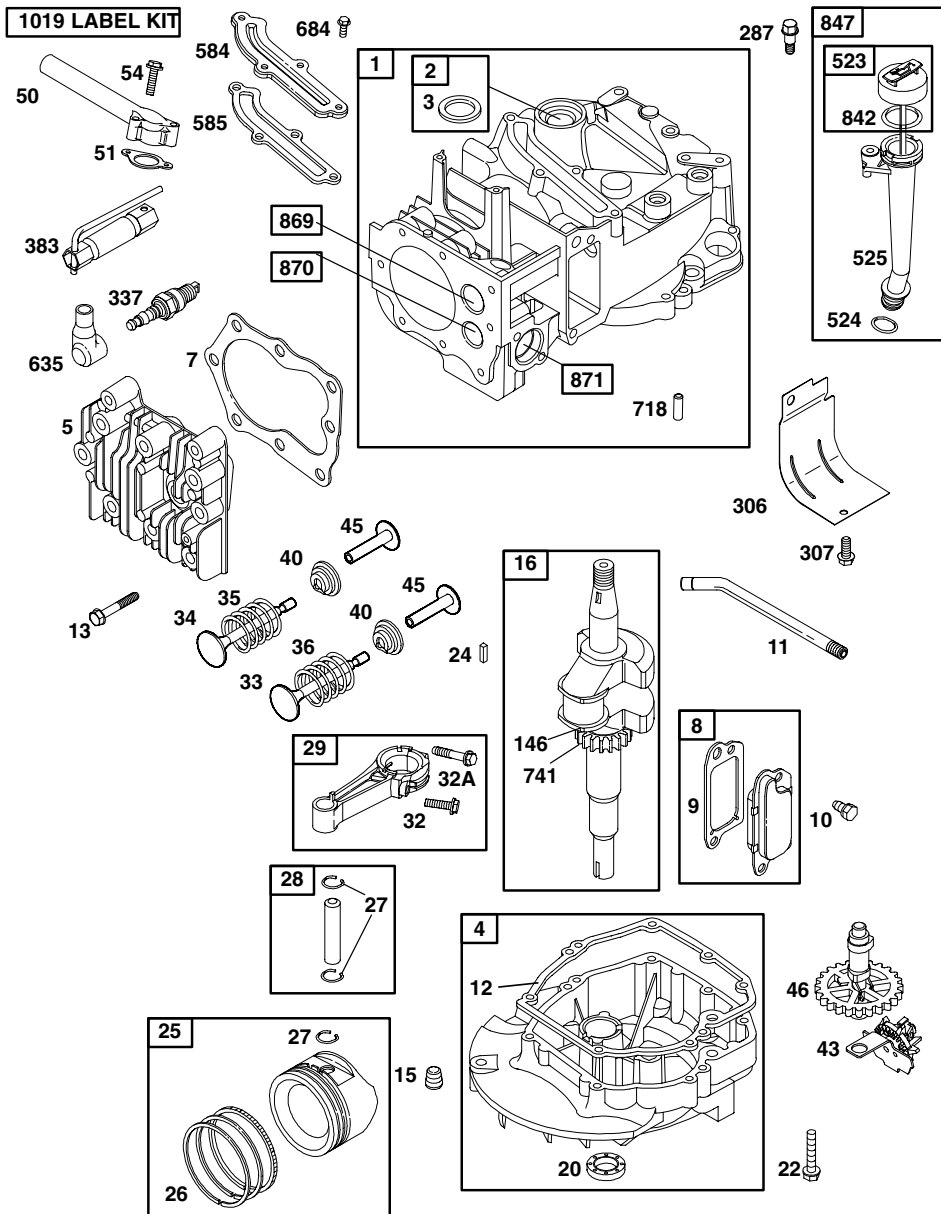


TO EMPTY GRASS CATCHER

- 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.





BEFORE STARTING ENGINE

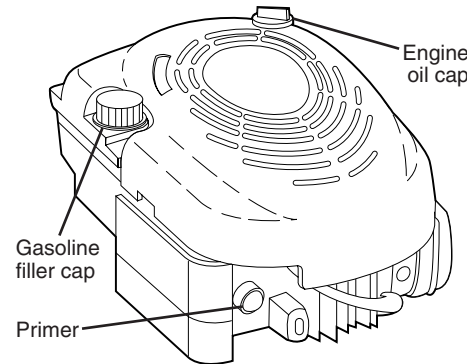
ADD OIL

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 on startup.

1. Be sure lawnmower is level and area around oil fill is clean.
2. Remove oil dipstick from oil fill spout. Make sure that rim of spout is clean.
3. You receive a container of oil with the unit. Slowly pour the entire container down the oil fill spout into the engine.
4. Wait one minute to allow oil to settle. Insert and tighten dipstick, then remove it to check oil level.
5. Always be sure to retighten oil dipstick before starting engine.

- 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

- 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. 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.

TO START ENGINE

NOTE: Due to protective coatings on the engine, a small amount of smoke may be present during the initial use of the product and should be considered normal.

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

TO STOP ENGINE

- To stop engine, release operator presence control bar.

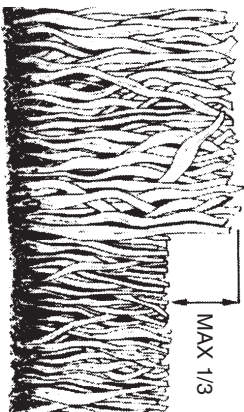
NOTE: In cooler weather it may be necessary to repeat priming steps. In warmer weather over priming may cause flooding and engine will not start. If you do flood engine, wait a few minutes before attempting to start and do not repeat priming steps.

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



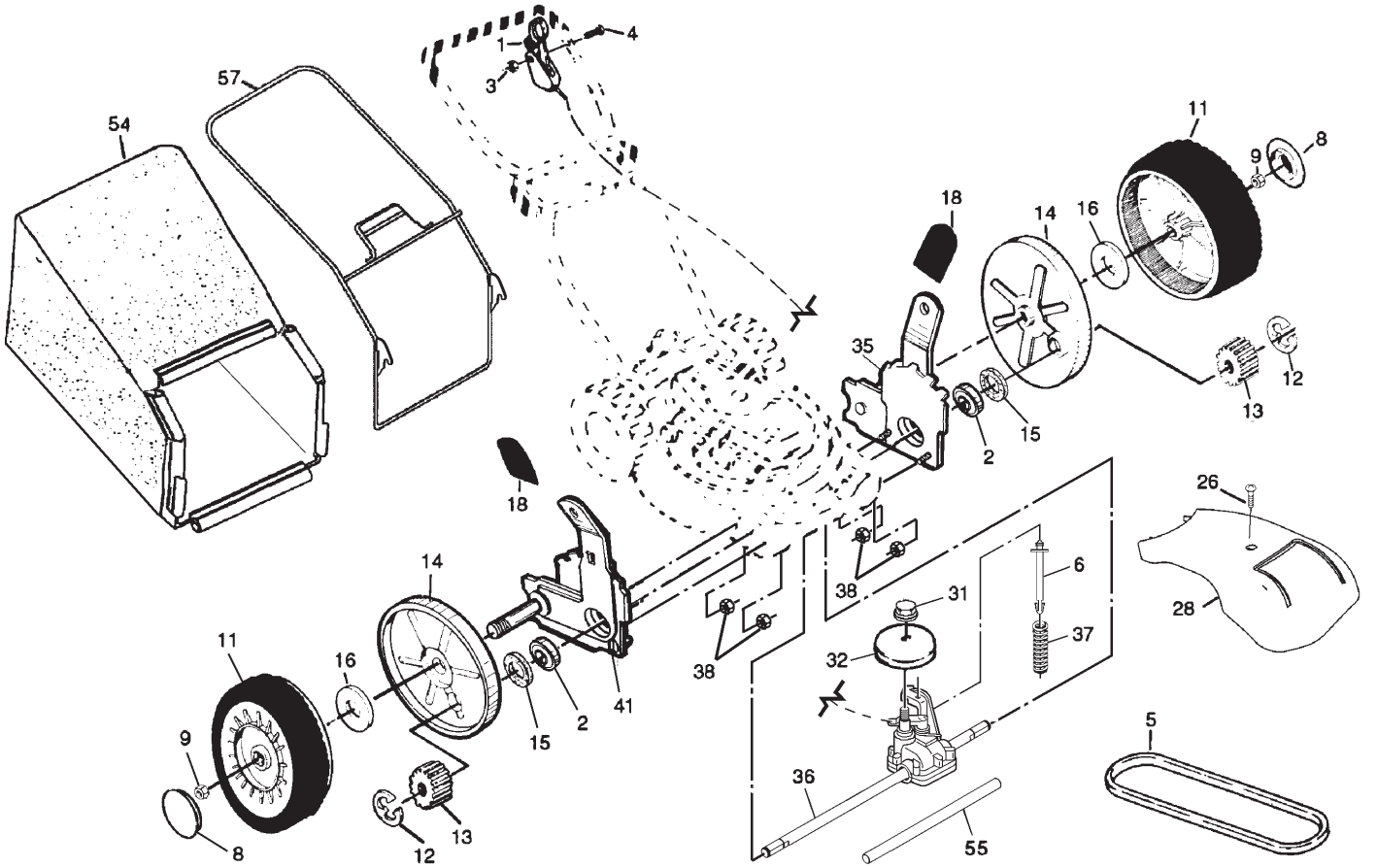
- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east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

CRAFTSMAN ROTARY LAWN MOWER - - MODEL NUMBER 944.363411

KEY NO.	PART NO.	DESCRIPTION
1	184586	Control Cable Assembly
2	167387	Bearing, Wheel Adjuster
3	751152	Locknut #10-24
4	158755	Hex Washer Head Screw 1/4-20 x 2.12
5	175436	V-Belt
6	150495	Spring Retainer
8	181675	Hubcap
9	145212	Locknut
11	180775	Wheel & Tire Assembly
12	12000058	E-Ring
13	137054	Pinion
14	180504	Dust Cover
15	88118	Felt Washer
16	67725	Washer 1/2 x 1-1/2 x .134
18	87877	Selector Knob
26	175262	Pan Head Tapping Screw #10-24 x 2-3/4

KEY NO.	PART NO.	DESCRIPTION
28	178843	Drive Cover
31	132010	Hex Flange Nut
32	137052	Drive Pulley
35	151521	Kit, Wheel Adjuster, LH (Includes Knob and Bearing)
36	180184	Gear Case (See Breakdown)
37	137090	Spring
38	73800400	Locknut 1/4-20
41	151520	Kit, Wheel Adjuster, RH (Includes Knob and Bearing)
54	186034	Grassbag Assembly
55	175739	Driveshaft Cover
57	183993	Frame

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



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MAINTENANCE

MAINTENANCE SCHEDULE

FILL IN DATES AS YOU COMPLETE REGULAR SERVICE	BEFORE EACH USE				AFTER EACH USE				EVERY 10 HOURS				EVERY 25 HOURS SEASON				EVERY 100 HOURS				SERVICE DATES			
Check for Loose Fasteners (If Equipped)					✓																			
Clean/Inspect Grass Catcher (Clean Lawn Mower)						✓																		
Clean Under Drive Cover (Power-Propelled Mowers)																								
Check drive belt/pulleys (Power-Propelled Mowers)																								
Check/Sharpen/Replace Blade																								
Lubrication Chart																								
Clean Battery/Recharge (Electric Start Mowers)																								
Check Engine Oil Level																								
Change Engine Oil																								
Clean Air Filter																								
Inspect Muffler																								
Clean or Replace Spark Plug																								
Replace Air Filter Paper Cartridge																								

- 1 - Change more often when operating under a heavy load or in high ambient temperatures.
- 2 - Service more often when operating in dirty or dusty conditions.
- 3 - Replace blades more often when mowing in sandy soil.
- 4 - Change 48 hours at end of season.

GENERAL RECOMMENDATIONS

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

Some adjustments will need to be made periodically to properly maintain your unit. All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

- Once a year, replace the spark plug, 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.

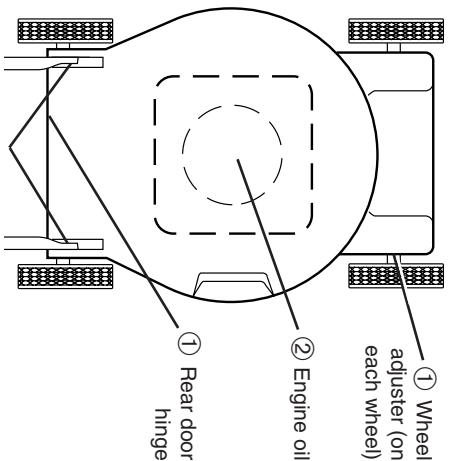
BEFORE EACH USE

- 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.

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PRODUCT SPECIFICATIONS

Serial Number:	
Date of Purchase:	
Gasoline Capacity / Type:	1.5 Liters (Unleaded Regular)
Oil Type (API-SF-SJ):	SAE 30 (above 32°F/0°C); SAE 5W-30 (below 32°F/0°C)
Oil Capacity:	0.58 Liters
Spark Plug:	Champion RJ19LM (Gap: 0.76 mm)
Blade Bolt Torque:	35-40 ft. lbs. / 47-54 N-m
<ul style="list-style-type: none"> The model and serial numbers will be found on a decal on the rear of the mower housing. Record both serial number and date of purchase in space provided above. 	

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.

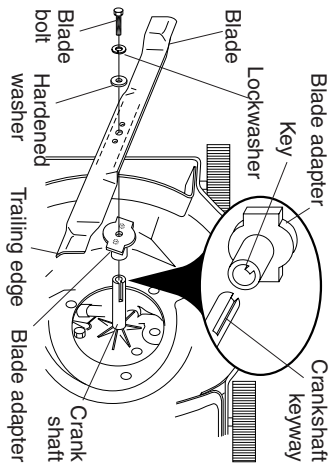
TO REMOVE BLADE

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. / 47-54 N-m.
- 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.

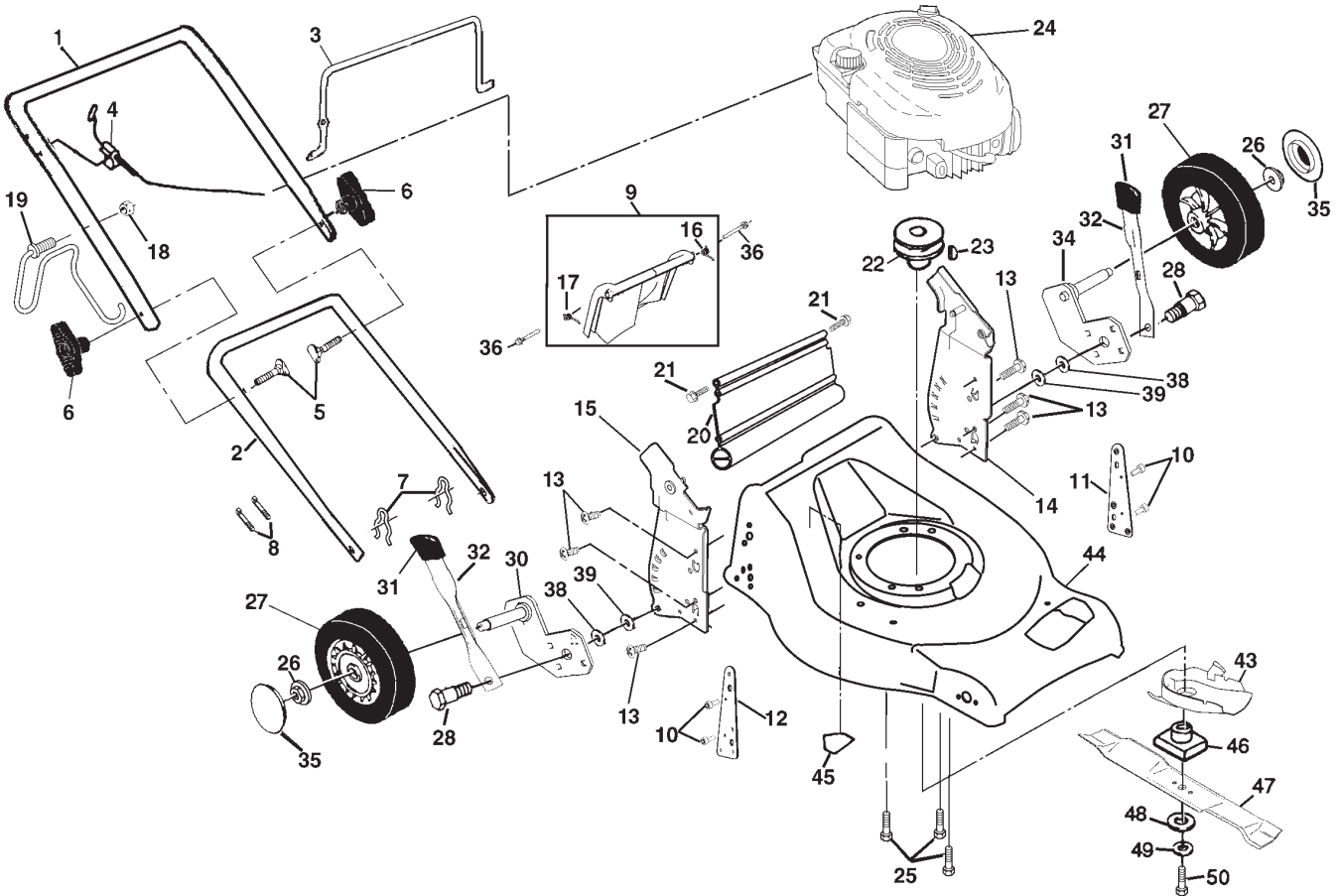
- Care should be taken to keep the blade balanced. An unbalanced blade will cause eventual damage to lawn mower or engine.
- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.
 - To check blade balance, drive a nail into a beam or wall. Leave about one inch of the straight nail exposed. Place center hole of blade over the head of 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.

CRAFTSMAN ROTARY LAWN MOWER -- MODEL NUMBER 944.363411

KEY NO.	PART NO.	DESCRIPTION
1	166860X479	Upper Handle
2	151721X479	Lower Handle
3	146771	Control Bar
4	182755	Engine Zone Control Cable
5	131959	Handle Bolt
6	136376	Handle Knob
7	51793	Hairpin Cotter
8	66426	Wire Tie
9	180479	Rear Door Kit (Includes Key #16 and 17)
10	128415	Pop Rivet
11	175069X479	Support Bracket, LH
12	175070X479	Support Bracket, RH
13	17060410	Screw 14-20 x 5/8
14	175082X479	Handle Bracket Assembly (Left)
15	175081X479	Handle Bracket Assembly (Right)
16	180071	Spring, LH
17	180072	Spring, RH
18	132004	Keps Locknut 1/4-20
19	186079	Rope Guide / Anti-Fold Bracket
20	178398	Rear Skirt
21	88652	Hinge Screw 1/4-20 x 1-1/4
22	84596	Engine Pulley
23	87677	Hi-Pro Key #505
24	- - -	Engine, Briggs & Stratton, Model Number 12Q802-0282-B1 (See Breakdown)

KEY NO.	PART NO.	DESCRIPTION
25	150406	Screw, Hex Head, Thread Rolling 3/8-16 x 1-1/8
26	83923	Hex Flange Nut
27	150341	Wheel
28	175231	Shoulder Bolt 5/16-18 x .33
30	186575X004	Axle Arm Assembly, RR
31	87877	Selector Knob
32	175060X004	Selector Spring
34	186576X004	Axle Arm Assembly, LR
35	180625	Hubcap
36	184193	Bolt
38	176185	Washer, Step
39	176235	Pushnut
43	175083	Bottom Belt Cover
44	186640	Lawn Mower Housing (Incl. Key #10, 11, 12 & 45)
45	107339X	Danger Decal
46	851514	Blade Adapter
47	175064	Blade 21"
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
- -	162300	Warning Decal (Not Shown)
- -	187695	Owner's Manual, English
- -	187696	Owner's Manual, French

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



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 a manufacturer approved replacement catcher. Give the lawn mower model number when ordering.

DRIVE WHEELS

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

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

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

GEAR CASE

- To keep your drive system working properly, the gear case and area around the drive should be kept clean and free of trash build-up. Clean under the drive cover twice a season.
- The gear case is filled with lubricant to the proper level at the factory. The only time the lubricant needs attention is if service has been performed on the gear case.
- If lubricant is required, use only Elf brand oil, Part No. REDUCTELF 100. Do not substitute.

ENGINE

LUBRICATION

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

SAE VISCOSITY GRADES	
SW-30	SAE 30
F -20 0 -20 -10	30 32 40 10 20 30 40
TEMPERATURE RANGE ANTICIPATED BEFORE NEXT OIL CHANGE	
C -30 -20 -10 0 10 20 30 40	100 80 60 40 20 0 20 40

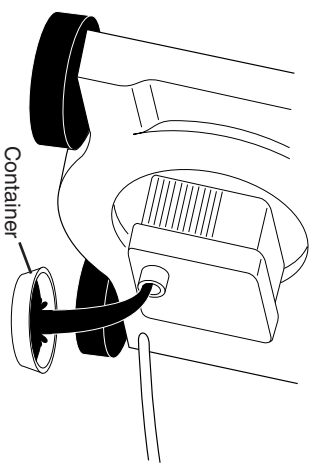
NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

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, 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. Move 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. Fill engine with oil. The engine oil capacity is 20 oz. If oil is not completely drained from engine, you may not need the entire container of a 20 oz. bottle of oil. Slowly pour 3/4 of the oil from the container down the oil fill spout into the engine.
6. Wait one minute to allow oil to settle. Insert and tighten dipstick, then remove it to check oil level.
7. Continue adding small amounts of oil and rechecking the dipstick until it reads full. DO NOT overfill, or engine will smoke on startup.
8. Always be sure to retighten oil dipstick before starting engine.
9. Reconnect spark plug wire to spark plug.



AIR FILTER

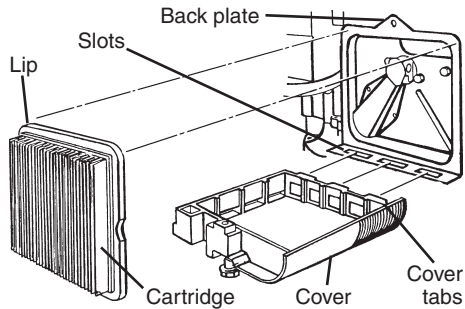
Your engine will not run properly and may be damaged by using a dirty air filter. Replace the air filter every 100 hours of operation or every season, whichever occurs first. Service air cleaner more often under dusty conditions.

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.

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 where it cannot come in contact with plug.

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 "PRODUCT SPECIFICATIONS" in Maintenance section of this manual.

CLEANING

IMPORTANT: For best performance, keep mower housing free of built-up grass and trash. Clean the underside of your mower after each use.

CAUTION: Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with 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.

LAWN MOWER

TO ADJUST CUTTING HEIGHT

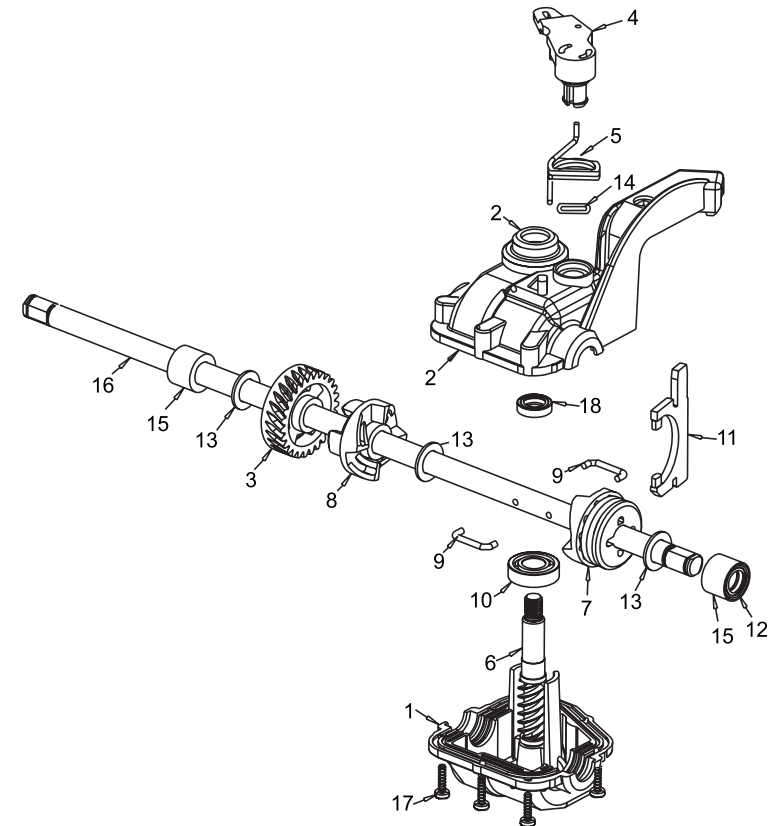
See "TO ADJUST CUTTING HEIGHT" in the Operation section of this manual.

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.

REPAIR PARTS

CRAFTSMAN ROTARY LAWN MOWER - - MODEL NUMBER 944.363411 GEAR CASE ASSEMBLY - - PART NUMBER 180184



KEY NO.	PART NO.	DESCRIPTION
1	183497	Case, Lower
2	183498	Case, Upper
3	183499	Gear, 27 Teeth
4	183500	Lever, Clutch
5	183501	Spring, Return
6	183502	Shaft, Input
7	183503	Dog, Movable
8	183504	Dog, Fixed
9	183505	Wire, Formed
10	183506	Bearing, Ball
11	183507	Fork, Shift
12	183508	Seal, Output Shaft
13	183509	Washer
14	183510	Seal, Case
15	183511	Bushing
16	183512	Shaft, Output
17	183513	Screw
18	183514	Seal, Input Shaft
--	183404	Kit, Gearcase Replacement

NOTE: Use Dow Corning #709 to reseal Gear Case Halves.

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

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

PROBLEM	CAUSE	CORRECTION
Poor cut – uneven	<ol style="list-style-type: none"> 1. Worn, bent or loose blade. 2. Wheel heights uneven. 3. Buildup of grass, leaves and trash under mower. 	<ol style="list-style-type: none"> 1. Replace blade. Tighten blade bolt. 2. Set all wheels at same height. 3. Clean underside of mower housing.
Excessive vibration	<ol style="list-style-type: none"> 1. Worn, bent or loose blade. 2. Bent engine crankshaft. 	<ol style="list-style-type: none"> 1. Replace blade. Tighten blade bolt. 2. Contact a Sears or other qualified service center.
Starter rope hard to pull	<ol style="list-style-type: none"> 1. Engine flywheel brake is on when control bar is released. 2. Bent engine crankshaft. 3. Blade adapter broken. 4. Blade dragging in grass. 	<ol style="list-style-type: none"> 1. Depress control bar to upper handle before pulling starter rope. 2. Contact a Sears or other qualified service center. 3. Replace blade adapter. 4. Move lawn mower to cut grass or to hard surface.
Grass catcher not filling (If so equipped)	<ol style="list-style-type: none"> 1. Cutting height too low. 2. Lift on blade worn off. 3. Catcher not venting air. 	<ol style="list-style-type: none"> 1. Raise cutting height. 2. Replace blade. 3. Clean grass catcher.
Hard to push	<ol style="list-style-type: none"> 1. Grass is too high or wheel height is too low. 2. Rear of lawn mower housing or cutting blade dragging in grass. 3. Grass catcher too full. 4. Handle height position not right for you. 	<ol style="list-style-type: none"> 1. Raise cutting height. 2. Raise rear of lawn mower housing one (1) setting higher. 3. Empty grass catcher. 4. Adjust handle height to suit.
Loss of drive or slowing of drive speed	<ol style="list-style-type: none"> 1. Belt wear. 2. Belt off of pulley. 3. Drive cable worn or broken. 4. Dirt in drive pinions. 	<ol style="list-style-type: none"> 1. Check/replace drive belt. 2. Check/reinstall drive belt. 3. Replace drive cable. 4. Clean drive pinions.

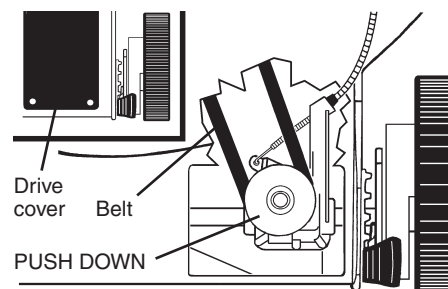
TO REMOVE DRIVE BELT

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

TO REPLACE DRIVE BELT

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

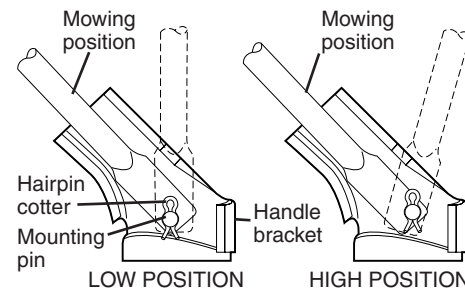
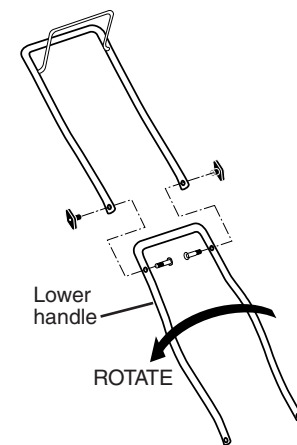
NOTE: Always use factory approved belt to assure fit and long life.



TO ADJUST HANDLE

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

1. Remove upper handle and 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.



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

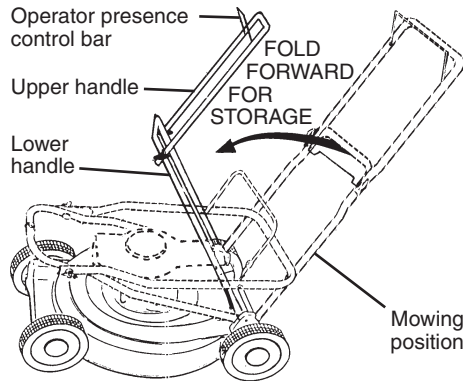
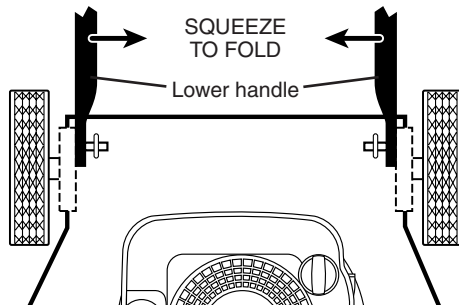
You can fold your lawn mower handle for storage.

NOTE: The upper handle has an "anti-fold" bracket located on the right side of the handle. This bracket prevents the upper handle from folding forward, which helps protect control cable(s) from damage.

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, 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 30 ml of oil through spark plug hole into cylinder.
3. Pull starter handle slowly a few times to distribute oil.
4. Replace with new spark plug.

OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems.

- If possible, store your unit indoors and cover it to protect it from dust and dirt.
- Cover your unit with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe, which allows condensation to form and will cause your unit to rust.

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

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

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

PROBLEM	CAUSE	CORRECTION
Does not start	1. Dirty air filter.	1. Clean/replace air filter.
	2. Out of fuel.	2. Fill fuel tank.
	3. Stale fuel.	3. Drain tank and refill with fresh, clean fuel.
	4. Water in fuel.	4. Drain fuel tank and carburetor and refill tank with fresh gasoline.
	5. Spark plug wire is disconnected.	5. Connect wire to plug.
	6. Bad spark plug.	6. Replace spark plug.
	7. Loose blade or broken blade adapter.	7. Tighten blade bolt or replace blade adapter.
	8. Control bar in released position.	8. Depress control bar to handle.
	9. Control bar defective.	9. Replace control bar.
	10. Fuel valve lever (if so equipped) in OFF position.	10. Turn fuel valve lever to the ON position.
	11. Weak battery (if equipped).	11. Charge battery.
	12. Disconnected battery connector (if equipped).	12. Connect battery to engine.
Loss of power	1. Rear of lawn mower housing or cutting blade dragging in heavy grass.	1. Set to "Higher Cut" position.
	2. Cutting too much grass.	2. Set to "Higher Cut" position.
	3. Dirty air filter.	3. Clean/replace air filter.
	4. Buildup of grass, leaves, and trash under mower.	4. Clean underside of mower housing.
	5. Too much oil in engine.	5. Check oil level.
	6. Walking speed too fast.	6. Cut at slower walking speed.